GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: July 22, 2004, 13:45:03 ; Search time 19 Seconds
(without alignments)
510.825 Million cell updates/sec

Title: US-09-527-376-2
Perfect score: 981
Sequence: 1 MTAPSCAFPVQFRQPSVSGL.....SPVGMIPDIYEKEVRLMIPL 188

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	511	52.1	198	3	US-09-045-973-5	Sequence 5, Appli
2	275	28.0	226	3	US-09-045-973-8	Sequence 8, Appli
3	252	25.7	367	2	US-08-530-290-24	Sequence 24, Appl
4	252	25.7	367	2	US-08-990-379-6	Sequence 6, Appli
5	246	25.1	169	4	US-09-544-716-16	Sequence 16, Appl
6	246	25.1	169	4	US-09-557-921-17	Sequence 17, Appl
7	246	25.1	169	4	US-09-564-357-19	Sequence 19, Appl
8	246	25.1	169	4	US-09-619-380-18	Sequence 18, Appl
9	246	25.1	314	4	US-09-371-671B-11	Sequence 11, Appl
10	240	24.5	394	2	US-08-530-290-23	Sequence 23, Appl
11	240	24.5	394	4	US-09-702-705-805	Sequence 805, App
12	240	24.5	394	4	US-09-736-457-805	Sequence 805, App
13	240	24.5	394	4	US-09-614-124B-805	Sequence 805, App
14	240	24.5	394	4	US-09-671-325-805	Sequence 805, App
15	240	24.5	394	4	US-09-589-184-805	Sequence 805, App
16	238	24.3	302	4	US-09-702-705-806	Sequence 806, App
17	238	24.3	302	4	US-09-736-457-806	Sequence 806, App
18	238	24.3	302	4	US-09-614-124B-806	Sequence 806, App
19	238	24.3	302	4	US-09-671-325-806	Sequence 806, App
20	238	24.3	302	4	US-09-589-184-806	Sequence 806, App
21	238	24.3	394	4	US-09-702-705-827	Sequence 827, App
22	238	24.3	394	4	US-09-736-457-827	Sequence 827, App
23	238	24.3	394	4	US-09-614-124B-827	Sequence 827, App
24	238	24.3	394	4	US-09-671-325-827	Sequence 827, App
25	238	24.3	394	4	US-09-589-184-827	Sequence 827, App
26	236	24.1	393	2	US-08-990-379-4	Sequence 4, Appli
27	236	24.1	395	2	US-08-990-379-5	Sequence 5, Appli
28	227	23.1	169	4	US-09-544-716-17	Sequence 17, Appl
29	227	23.1	169	4	US-09-557-921-18	Sequence 18, Appl
30	227	23.1	169	4	US-09-564-357-20	Sequence 20, Appl
31	227	23.1	169	4	US-09-619-380-19	Sequence 19, Appl
32	222	22.6	176	4	US-09-704-139-2	Sequence 2, Appli
33	221	22.5	171	4	US-09-544-716-18	Sequence 18, Appl
34	221	22.5	171	4	US-09-557-921-19	Sequence 19, Appl
35	221	22.5	171	4	US-09-564-357-21	Sequence 21, Appl
36	221	22.5	171	4	US-09-619-380-20	Sequence 20, Appl
37	221	22.5	397	2	US-08-990-379-8	Sequence 8, Appli
38	220	22.4	173	4	US-09-704-139-4	Sequence 4, Appli
39	220	22.4	173	4	US-09-816-494-7	Sequence 7, Appli
40	219.5	22.4	170	4	US-09-544-716-14	Sequence 14, Appl
41	219.5	22.4	170	4	US-09-557-921-15	Sequence 15, Appl
42	219.5	22.4	170	4	US-09-564-357-17	Sequence 17, Appl
43	219.5	22.4	170	4	US-09-619-380-16	Sequence 16, Appl
44	216	22.0	117	1	US-07-988-273-4	Sequence 4, Appli
45	216	22.0	117	5	PCT-US93-12019-4	Sequence 4, Appli

ALIGNMENTS

```
RESULT 1
US-09-045-973-5
; Sequence 5, Application US/09045973
; Patent No. 6165767
;  GENERAL INFORMATION:
;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Yue, Henry
;    APPLICANT:  Corley, Neil C.
;    APPLICANT:  Guegler, Karl J.
;    APPLICANT:  Baughn, Mariah
;    TITLE OF INVENTION:  PROTEIN PHOSPHATASE RELATED MOLECULES
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/045,973
;      FILING DATE:  Filed Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0491 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (650) 855-0555
;      TELEFAX:  (650) 845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  198 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  BRSTNOT16
;      CLONE:  3041794
US-09-045-973-5
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  Query Match           52.1%;  Score 511;  DB 3;  Length 198;
  Best Local Similarity  50.3%;  Pred. No. 1.2e-54;
  Matches   90;  Conservative   40;  Mismatches   49;  Indels    0;  Gaps    0;

Qy          9 PVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDIQYMQ 68
              |    : : |::||| ||::  |  |:|: :| :  || ::| ::|: |  :   :|::
Db         16 PRMISEGDIGGIAQITSSLFLGRGSVASNRHLLQARGITCIVNATIEIPNFNWPQFEYVK 75

Qy         69 VPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHAMSLL 128
              ||:|| |:: :  :|| :|| ||||  | | ||:|||||||||| ||:|||||:| : ||
Db         76 VPLADMPHAPIGLYFDTVADKIHSVSRKHGATLVHCAAGVSRSATLCIAYLMKFHNVCLL 135

Qy        129 DAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPDIYEKEVRLMIP 187
              :|: | |: ||:|||| ||| ||| || |||||:|| || :| |::||:|||| | ::|
Db        136 EAYNWVKARRPVIRPNVGFWRQLIDYERQLFGKSTVKMVQTPYGIVPDVYEKESRHLMP 194


RESULT 2
US-09-045-973-8
; Sequence 8, Application US/09045973
; Patent No. 6165767
;  GENERAL INFORMATION:
;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Yue, Henry
;    APPLICANT:  Corley, Neil C.
;    APPLICANT:  Guegler, Karl J.
;    APPLICANT:  Baughn, Mariah
;    TITLE OF INVENTION:  PROTEIN PHOSPHATASE RELATED MOLECULES
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/045,973
;      FILING DATE:  Filed Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0491 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (650) 855-0555
;      TELEFAX:  (650) 845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  226 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  GenBank
;      CLONE:  1495338
US-09-045-973-8

  Query Match           28.0%;  Score 275;  DB 3;  Length 226;
  Best Local Similarity  36.8%;  Pred. No. 1.6e-25;
  Matches   68;  Conservative   42;  Mismatches   63;  Indels   12;  Gaps    7;

Qy         10 VQFR-QPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVN-TLYEDIQYM 67
              : ||  |  : :|:|   |:|  ||:| :|  :  ::|| :|| : || |     |||

Db          3 LSFRVNPEYAAMSEIVPGLFIC-GVSALSKDEMKKHKITHIINATTEVPNLRSLGDIQRT 61

Qy         68 QVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHAMSL 127
              :: : |:| : :    :  :| | ::    |: |:|| |||||||::|||:|:||   :|
Db         62 KLWLEDTPQTYIYPHLELQSDQIQALIADGGKVLVHCVAGVSRSASICLAFLLKYRCRNL 121

Qy        128 LDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKN--TVHMV---SSPVGMIPDIYEKEV 182
              :|:   || | ::||| ||| ||| || |   :|  :| :|   : |  ::||:|   :
Db        122 REAYHLMKSKRSMVRPNLGFWRQLIAYE-QNVKENAGSVRLVRDEAQPEQLLPDVY---L 177

Qy        183 RLMIP 187
              : ||
Db        178 NIAIP 182


RESULT 3
US-08-530-290-24
; Sequence 24, Application US/08530290
; Patent No. 5958721
;  GENERAL INFORMATION:
;    APPLICANT:  Marshall, Christopher John ,
;    APPLICANT:  Ashworth, Alan
;    APPLICANT:  Hughes, David Anthony
;    TITLE OF INVENTION:  Methods for Screening of Substances for
;    TITLE OF INVENTION:  Therapeutic Activity and Yeast for Use Therein
;    NUMBER OF SEQUENCES:  24
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/530,290
;      FILING DATE:  14-DEC-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  WO PCT/GB94/00694
;      FILING DATE:  31-MAR-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9402573.1
;      FILING DATE:  10-FEB-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9307250.2
;      FILING DATE:  07-APR-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Bastian, Kevin L.
;      REGISTRATION NUMBER:  34,774
;      REFERENCE/DOCKET NUMBER:  084611-000000US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;  INFORMATION FOR SEQ ID NO:  24:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  367 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-530-290-24

  Query Match           25.7%;  Score 252;  DB 2;  Length 367;
  Best Local Similarity  34.3%;  Pred. No. 2.3e-22;
  Matches   59;  Conservative   29;  Mismatches   80;  Indels    4;  Gaps    1;

Qy          5 SCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDI 64
              ||: |:        |  :|   ||: :   |: | || :  || :||||    |
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Db        163 SCSTPLY----DQGGPVEILPFLYLGSAYHASRKDMLDALGITALINVSANCPNHFEGHY 218

Qy         65 QYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHA 124
              ||  :|| |:  : :  :|:   | | |::   ||  :|| ||:|||| :||||||: :
Db        219 QYKSIPVEDNHKADISSWFNEAIDFIDSIKNAGGRVFVHCQAGISRSATICLAYLMRTNR 278

Qy        125 MSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPD 176
              : | :|  : |  | || ||  |  ||: :| |:   :      ||   : |
Db        279 VKLDEAFEFVKQRRSIISPNFSFMGQLLQFESQVLAPHCSAEAGSPAMAVLD 330


RESULT 4
US-08-990-379-6
; Sequence 6, Application US/08990379
; Patent No. 5998188
; GENERAL INFORMATION:
;  APPLICANT: Stork, Philip J
;  APPLICANT: Misra-Press, Anita
;  TITLE OF INVENTION: Mitogen Activated Protein Kinase Phosphatase cDNAs and
;  TITLE OF INVENTION: Their Biologically Active Expression Products
;  FILE REFERENCE: 4104-000322USA
;  CURRENT APPLICATION NUMBER: US/08/990,379
;  CURRENT FILING DATE: 1997-12-15
;  EARLIER APPLICATION NUMBER: PCT/US96/10402
;  EARLIER FILING DATE: 1996-06-14
;  EARLIER APPLICATION NUMBER: 60/000,263
;  EARLIER FILING DATE: 1995-06-16
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
;   LENGTH: 367
;   TYPE: PRT
;   ORGANISM: Mus sp.
US-08-990-379-6

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  Best Local Similarity  34.3%;  Pred. No. 2.3e-22;
  Matches   59;  Conservative   29;  Mismatches   80;  Indels    4;  Gaps    1;

Qy          5 SCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDI 64
              ||: |:        |  :|   ||: :   |: | || :  || :||||    |
Db        163 SCSTPLY----DQGGPVEILSFLYLGSAYHASRKDMLDALGITALINVSANCPNHFEGHY 218

Qy         65 QYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHA 124
              ||  :|| |:  : :  :|:   | | |::   ||  :|| ||:|||| :||||||: :
Db        219 QYKSIPVEDNHKADISSWFNEAIDFIDSIKDAGGRVFVHCQAGISRSATICLAYLMRTNR 278

Qy        125 MSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPD 176
              : | :|  : |  | || ||  |  ||: :| |:   :      ||   : |
Db        279 VKLDEAFEFVKQRRSIISPNFSFMGQLLQFESQVLAPHCSAEAGSPAMAVLD 330


RESULT 5
US-09-544-716-16
; Sequence 16, Application US/09544716
; Patent No. 6492157
; GENERAL INFORMATION:
;  APPLICANT:  Luche, Ralf M.
;  APPLICANT:  Wei, Bo
;  TITLE OF INVENTION:  DSP-9 DUAL-SPECIFICITY PHOSPHATASE
;  FILE REFERENCE:  200125.415
;  CURRENT APPLICATION NUMBER: US/09/544,716
;  CURRENT FILING DATE:  2000-04-10
;  NUMBER OF SEQ ID NOS:  20
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 16
;   LENGTH: 169
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-544-716-16

  Query Match            25.1%;  Score 246;  DB 4;  Length 169;
  Best Local Similarity  36.4%;  Pred. No. 3.9e-22;
  Matches   56;  Conservative   27;  Mismatches   67;  Indels    4;  Gaps    1;

Qy          5 SCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDI 64
              ||: |:        |  :|   ||: :   |: | || :  || :||||    |
Db         16 SCSTPLY----DQGGPVEILPFLYLGSAYHASRKDMLDALGITALINVSANCPNHFEGHY 71

Qy         65 QYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHA 124
              ||  :|| |:  : :  :|:   | | |::   ||  :|| ||:|||| :||||||: :
Db         72 QYKSIPVEDNHKADISSWFNEAIDFIDSIKNAGGRVFVHCQAGISRSATICLAYLMRTNR 131

Qy        125 MSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQL 158
              : | :|  : |  | || ||  |  ||: :| |:
Db        132 VKLDEAFEFVKQRRSIISPNFSFMGQLLQFESQV 165


RESULT 6
US-09-557-921-17
; Sequence 17, Application US/09557921
; Patent No. 6551810
; GENERAL INFORMATION:
;  APPLICANT:  Luche, Ralf M.
;  APPLICANT:  Wei, Bo
;  TITLE OF INVENTION:  DSP-10 DUAL-SPECIFICITY PHOSPHATASE
;  FILE REFERENCE:  200125.416
;  CURRENT APPLICATION NUMBER: US/09/557,921
;  CURRENT FILING DATE:  2000-04-20
;  NUMBER OF SEQ ID NOS:  20
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 17
;   LENGTH: 169
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-557-921-17

  Query Match            25.1%;  Score 246;  DB 4;  Length 169;
  Best Local Similarity  36.4%;  Pred. No. 3.9e-22;
  Matches   56;  Conservative   27;  Mismatches   67;  Indels    4;  Gaps    1;

Qy          5 SCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDI 64
              ||: |:        |  :|   ||: :   |: | || :  || :||||    |
Db         16 SCSTPLY----DQGGPVEILPFLYLGSAYHASRKDMLDALGITALINVSANCPNHFEGHY 71

Qy         65 QYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHA 124
              ||  :|| |:  : :  :|:   | | |::   ||  :|| ||:|||| :||||||: :
Db         72 QYKSIPVEDNHKADISSWFNEAIDFIDSIKNAGGRVFVHCQAGISRSATICLAYLMRTNR 131

Qy        125 MSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQL 158
              : | :|  : |  | || ||  |  ||: :| |:
Db        132 VKLDEAFEFVKQRRSIISPNFSFMGQLLQFESQV 165


RESULT 7
US-09-564-357-19
; Sequence 19, Application US/09564357
; Patent No. 6645753
; GENERAL INFORMATION:
;  APPLICANT: Luche, Ralf M.
;  APPLICANT:  Wei, Bo
;  TITLE OF INVENTION: DSP-5 DUAL-SPECIFICITY PHOSPHATASE
;  FILE REFERENCE: 200125.413
;  CURRENT APPLICATION NUMBER: US/09/564,357
;  CURRENT FILING DATE:  2000-04-24
;  NUMBER OF SEQ ID NOS: 22
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 19
;   LENGTH: 169
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-564-357-19

  Query Match            25.1%;  Score 246;  DB 4;  Length 169;
  Best Local Similarity  36.4%;  Pred. No. 3.9e-22;
  Matches   56;  Conservative   27;  Mismatches   67;  Indels    4;  Gaps    1;
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Qy          5 SCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDI 64
              ||: |:          |  :|   ||: :   |: | || :  || :||||    |
Db         16 SCSTPLY----DQGGPVEILPFLYLGSAYHASRKDMLDALGITALINVSANCPNHFEGHY 71

Qy         65 QYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHA 124
              ||  :|| |:  : :  :|:   | | |::   ||  :|| ||:|||| :||||||: :
Db         72 QYKSIPVEDNHKADISSWFNEAIDFIDSIKNAGGRVFVHCQAGISRSATICLAYLMRTNR 131

Qy        125 MSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQL 158
              : | :|  : |  | || ||  |  ||: :| |:
Db        132 VKLDEAFEFVKQRRSIISPNFSFMGQLLQFESQV 165


RESULT 8
US-09-619-380-18
; Sequence 18, Application US/09619380
; Patent No. 6649391
; GENERAL INFORMATION:
;  APPLICANT: Luche, Ralf M.
;  APPLICANT:  Wei, Bo
;  TITLE OF INVENTION: DSP-11 DUAL SPECIFICITY PHOSPHATASE
;  FILE REFERENCE: 200125.418
;  CURRENT APPLICATION NUMBER: US/09/619,380
;  CURRENT FILING DATE:  2000-07-19
;  NUMBER OF SEQ ID NOS: 22
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 18
;   LENGTH: 169
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-619-380-18

  Query Match           25.1%;  Score 246;  DB 4;  Length 169;
  Best Local Similarity  36.4%;  Pred. No. 3.9e-22;
  Matches   56;  Conservative   27;  Mismatches   67;  Indels    4;  Gaps    1;

Qy          5 SCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDI 64
              ||: |:          |  :|   ||: :   |: | || :  || :||||    |
Db         16 SCSTPLY----DQGGPVEILPFLYLGSAYHASRKDMLDALGITALINVSANCPNHFEGHY 71

Qy         65 QYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHA 124
              ||  :|| |:  : :  :|:   | | |::   ||  :|| ||:|||| :||||||: :
Db         72 QYKSIPVEDNHKADISSWFNEAIDFIDSIKNAGGRVFVHCQAGISRSATICLAYLMRTNR 131

Qy        125 MSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQL 158
              : | :|  : |  | || ||  |  ||: :| |:
Db        132 VKLDEAFEFVKQRRSIISPNFSFMGQLLQFESQV 165


RESULT 9
US-09-371-671B-11
; Sequence 11, Application US/09371671B
; Patent No. 6548743
; GENERAL INFORMATION:
;  APPLICANT: Sheen, Jen
;  APPLICANT:  Chiu, Wan-Ling
;  TITLE OF INVENTION: TRANSGENIC PLANTS EXPRESSING A
;  TITLE OF INVENTION:  DUAL-SPECIFICITY MAPK PHOSPHATASE AND USES THEREOF
;  FILE REFERENCE: 00786/370002
;  CURRENT APPLICATION NUMBER: US/09/371,671B
;  CURRENT FILING DATE:  1999-08-10
;  PRIOR APPLICATION NUMBER: 60/155,934
;  PRIOR FILING DATE: 1999-01-14
;  PRIOR APPLICATION NUMBER: 60/095,938
;  PRIOR FILING DATE: 1998-08-10
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
;   LENGTH: 314
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-371-671B-11

  Query Match           25.1%;  Score 246;  DB 4;  Length 314;
  Best Local Similarity  36.4%;  Pred. No. 1e-21;
  Matches   56;  Conservative   27;  Mismatches   67;  Indels    4;  Gaps    1;

Qy          5 SCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDI 64
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Db        163 SCSTPLY----DQGGPVEILSFLYLGSAYHASRKDMLDALGITALINVSANCPNHFEGHY 218

Qy         65 QYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHA 124
              ||  :|| |:  : :  :|:   | | |::   ||  :|| ||:|||| :||||||: :
Db        219 QYKSIPVEDNHKADISSWFNEAIDFIDSIKDAGGRVFVHCQAGISRSATICLAYLMRTNR 278

Qy        125 MSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQL 158
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Db        279 VKLDEAFEFVKQRRSIISPNFSFMGQLLQFESQV 312


RESULT 10
US-08-530-290-23
; Sequence 23, Application US/08530290
; Patent No. 5958721
;  GENERAL INFORMATION:
;    APPLICANT:  Marshall, Christopher John
;    APPLICANT:  Ashworth, Alan
;    APPLICANT:  Hughes, David Anthony
;    TITLE OF INVENTION:  Methods for Screening of Substances for
;    TITLE OF INVENTION:  Therapeutic Activity and Yeast for Use Therein
;    NUMBER OF SEQUENCES:  24
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/530,290
;      FILING DATE:  14-DEC-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  WO PCT/GB94/00694
;      FILING DATE:  31-MAR-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9402573.1
;      FILING DATE:  10-FEB-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9307250.2
;      FILING DATE:  07-APR-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Bastian, Kevin L.
;      REGISTRATION NUMBER:  34,774
;      REFERENCE/DOCKET NUMBER:  084611-000000US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;  INFORMATION FOR SEQ ID NO:  23:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  394 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-530-290-23

  Query Match           24.5%;  Score 240;  DB 2;  Length 394;
  Best Local Similarity  33.9%;  Pred. No. 7.8e-21;
  Matches   57;  Conservative   32;  Mismatches   75;  Indels    4;  Gaps    1;
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Qy          5 SCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDI 64
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Qy         65 QYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHA 124
              ||. :|| |:  : :  :|    ::| :|:  :|| |:|| ||:|||| :||||||
Db        241 QYKCIPVEDNHKADISSWFMEAIEYIDAVKDCRGRVLVHCQAGISRSATICLAYLMMKKR 300

Qy        125 MSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVG 172
              : | :|  : |  | || ||  |  ||: :| |:   :    :|| |
Db        301 VRLEEAFEFVKQRRSIISPNFSFMGQLLQFESQVLATSCAAEAASPSG 348


RESULT 11
US-09-702-705-805
; Sequence 805, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Bangur, Chaitanya S.
;  APPLICANT:  Lodes, Michael A.
;  APPLICANT:  Fanger, Gary
;  APPLICANT:  Vedvick, Tom
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Retter, Marc
;  APPLICANT:  Mannion, Jane
;  APPLICANT:  Fan, Liqun
;  TITLE OF INVENTION:  COMPOSITIONS AND METHODS FOR THE THERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF LUNG CANCER
;  FILE REFERENCE:  210121.478C14
;  CURRENT APPLICATION NUMBER: US/09/702,705
;  CURRENT FILING DATE:  2000-10-30
;  NUMBER OF SEQ ID NOS:  1833
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 805
;   LENGTH: 394
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-702-705-805

  Query Match             24.5%;  Score 240;  DB 4;  Length 394;
  Best Local Similarity   33.9%;  Pred. No. 7.8e-21;
  Matches   57;  Conservative   32;  Mismatches   75;  Indels    4;  Gaps    1;

Qy          5 SCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDI 64
              ||  |:  ::    |  :|   ||: :   |  : || :  || ::||| :  |
Db        185 SCGTPLHDQE----GPVEILPFLYLGSAYHAARRDMLDALGITALLNVSSDCPNHFEGHY 240

Qy         65 QYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHA 124
              ||  :|| |:  : :  :|    ::| :|:  :|| |:|| ||:|||| :||||||
Db        241 QYKCIPVEDNHKADISSWFMEAIEYIDAVKDCRGRVLVHCQAGISRSATICLAYLMMKKR 300

Qy        125 MSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVG 172
              : | :|  : |  | || ||  |  ||: :| |:   :    :|| |
Db        301 VRLEEAFEFVKQRRSIISPNFSFMGQLLQFESQVLATSCAAEAASPSG 348


RESULT 12
US-09-736-457-805
; Sequence 805, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Bangur, Chaitanya S.
;  APPLICANT:  Lodes, Michael A.
;  APPLICANT:  Fanger, Gary
;  APPLICANT:  Vedvick, Tom
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Retter, Marc
;  APPLICANT:  Mannion, Jane
;  APPLICANT:  Fan, Liqun
;  APPLICANT:  Wang, Aijun
;  TITLE OF INVENTION:  COMPOSITIONS AND METHODS FOR THE THERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF LUNG CANCER
;  FILE REFERENCE:  210121.478C15
;  CURRENT APPLICATION NUMBER: US/09/736,457
;  CURRENT FILING DATE:  2000-12-13
;  NUMBER OF SEQ ID NOS:  1864
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 805
;   LENGTH: 394
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-736-457-805

  Query Match             24.5%;  Score 240;  DB 4;  Length 394;
  Best Local Similarity   33.9%;  Pred. No. 7.8e-21;
  Matches   57;  Conservative   32;  Mismatches   75;  Indels    4;  Gaps    1;

Qy          5 SCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDI 64
              ||  |:  ::    |  :|   ||: :   |  : || :  || ::||| :  |
Db        185 SCGTPLHDQE----GPVEILPFLYLGSAYHAARRDMLDALGITALLNVSSDCPNHFEGHY 240

Qy         65 QYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHA 124
              ||  :|| |:  : :  :|    ::| :|:  :|| |:|| ||:|||| :||||||
Db        241 QYKCIPVEDNHKADISSWFMEAIEYIDAVKDCRGRVLVHCQAGISRSATICLAYLMMKKR 300

Qy        125 MSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVG 172
              : | :|  : |  | || ||  |  ||: :| |:   :    :|| |
Db        301 VRLEEAFEFVKQRRSIISPNFSFMGQLLQFESQVLATSCAAEAASPSG 348


RESULT 13
US-09-614-124B-805
; Sequence 805, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
;  APPLICANT: Wang, Tongtong
;  APPLICANT:  Bangur, Chaitanya S.
;  APPLICANT:  Lodes, Michael A.
;  APPLICANT:  Fanger, Gary
;  APPLICANT:  Vedvick, Tom
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Retter, Marc
;  APPLICANT:  Mannion, Jane
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF LUNG CANCER
;  FILE REFERENCE: 210121.478C9
;  CURRENT APPLICATION NUMBER: US/09/614,124B
;  CURRENT FILING DATE:  2001-07-11
;  NUMBER OF SEQ ID NOS: 1668
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 805
;   LENGTH: 394
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-614-124B-805

  Query Match             24.5%;  Score 240;  DB 4;  Length 394;
  Best Local Similarity   33.9%;  Pred. No. 7.8e-21;
  Matches   57;  Conservative   32;  Mismatches   75;  Indels    4;  Gaps    1;

Qy          5 SCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDI 64
              ||  |:  ::    |  :|   ||: :   |  : || :  || ::||| :  |
Db        185 SCGTPLHDQE----GPVEILPFLYLGSAYHAARRDMLDALGITALLNVSSDCPNHFEGHY 240

Qy         65 QYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHA 124
              ||  :|| |:  : :  :|    ::| :|:  :|| |:|| ||:|||| :||||||
Db        241 QYKCIPVEDNHKADISSWFMEAIEYIDAVKDCRGRVLVHCQAGISRSATICLAYLMMKKR 300

Qy        125 MSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVG 172
              : | :|  : |  | || ||  |  ||: :| |:   :    :|| |
Db        301 VRLEEAFEFVKQRRSIISPNFSFMGQLLQFESQVLATSCAAEAASPSG 348
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RESULT 14
US-09-671-325-805
; Sequence 805, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Bangur, Chaitanya S.
;  APPLICANT:  Lodes, Michael A.
;  APPLICANT:  Fanger, Gary
;  APPLICANT:  Vedvick, Tom
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Retter, Marc
;  APPLICANT:  Mannion, Jane
;  APPLICANT:  Fan, Liqun
;  TITLE OF INVENTION:  COMPOSITIONS AND METHODS FOR THE THERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF LUNG CANCER
;  FILE REFERENCE:  210121.478C12
;  CURRENT APPLICATION NUMBER: US/09/671,325
;  CURRENT FILING DATE:  2000-09-26
;  NUMBER OF SEQ ID NOS:  1825
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 805
;   LENGTH: 394
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-671-325-805

  Query Match            24.5%;  Score 240;  DB 4;  Length 394;
  Best Local Similarity  33.9%;  Pred. No. 7.8e-21;
  Matches   57;  Conservative   32;  Mismatches   75;  Indels    4;  Gaps    1;

Qy          5 SCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDI 64
              ||  |:  ::    |  :|   ||: :   |  : || :  || ::||| :  |
Db        185 SCGTPLHDQE----GPVEILPFLYLGSAYHAARRDMLDALGITALLNVSSDCPNHFEGHY 240

Qy         65 QYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHA 124
              ||  :|| |:  : :  :|    ::| :|:  :|| |:|| ||:|||| :||||||
Db        241 QYKCIPVEDNHKADISSWFMEAIEYIDAVKDCRGRVLVHCQAGISRSATICLAYLMMKKR 300

Qy        125 MSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVG 172
              : | :|  : |  | || ||  |  ||: :| |:   :     :|| |
Db        301 VRLEEAFEFVKQRRSIISPNFSFMGQLLQFESQVLATSCAAEAASPSG 348


RESULT 15
US-09-589-184-805
; Sequence 805, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Bangur, Chaitanya S.
;  APPLICANT:  Lodes, Michael A.
;  APPLICANT:  Fanger, Gary
;  APPLICANT:  Vedvick, Tom
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Retter, Marc
;  APPLICANT:  Mannion, Jane
;  TITLE OF INVENTION:  COMPOSITIONS AND METHODS FOR THERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF LUNG CANCER
;  FILE REFERENCE:  210121.478C8
;  CURRENT APPLICATION NUMBER: US/09/589,184
;  CURRENT FILING DATE:  2000-06-05
;  NUMBER OF SEQ ID NOS:  827
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 805
;   LENGTH: 394
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-589-184-805

  Query Match            24.5%;  Score 240;  DB 4;  Length 394;
  Best Local Similarity  33.9%;  Pred. No. 7.8e-21;
  Matches   57;  Conservative   32;  Mismatches   75;  Indels    4;  Gaps    1;

Qy          5 SCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDI 64
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Db        185 SCGTPLHDQE----GPVEILPFLYLGSAYHAARRDMLDALGITALLNVSSDCPNHFEGHY 240

Qy         65 QYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHA 124
              ||  :|| |:  : :  :|    ::| :|:  :|| |:|| ||:|||| :||||||
Db        241 QYKCIPVEDNHKADISSWFMEAIEYIDAVKDCRGRVLVHCQAGISRSATICLAYLMMKKR 300

Qy        125 MSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVG 172
              : | :|  : |  | || ||  |  ||: :| |:   :     :|| |
Db        301 VRLEEAFEFVKQRRSIISPNFSFMGQLLQFESQVLATSCAAEAASPSG 348


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Job time : 19 secs
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GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: July 27, 2004, 04:11:30 ; Search time 71 Seconds
(without alignments)
6518.719 Million cell updates/sec

Title: US-09-527-376-1
Perfect score: 834
Sequence: 1 cttttcctgtatttttttgc.....aaactaattgtgagatggtg 834

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	805.6	96.6	1394	4	US-09-620-312D-364	Sequence 364, App
2	177.6	21.3	1729	3	US-09-045-973-6	Sequence 6, Appli
3	88.8	10.6	944	4	US-09-371-671B-10	Sequence 10, Appl
4	88	10.6	2000	4	US-09-016-434-1291	Sequence 1291, Ap
5	87	10.4	1238	2	US-08-530-290-11	Sequence 11, Appl
6	87	10.4	1238	4	US-09-702-705-803	Sequence 803, App
7	87	10.4	1238	4	US-09-736-457-803	Sequence 803, App
8	87	10.4	1238	4	US-09-614-124B-803	Sequence 803, App
9	87	10.4	1238	4	US-09-671-325-803	Sequence 803, App
10	87	10.4	1238	4	US-09-589-184-803	Sequence 803, App
11	87	10.4	2064	4	US-09-702-705-825	Sequence 825, App
12	87	10.4	2064	4	US-09-736-457-825	Sequence 825, App
13	87	10.4	2064	4	US-09-614-124B-825	Sequence 825, App
14	87	10.4	2064	4	US-09-671-325-825	Sequence 825, App
15	87	10.4	2064	4	US-09-589-184-825	Sequence 825, App
16	87	10.4	2109	4	US-09-702-705-826	Sequence 826, App
17	87	10.4	2109	4	US-09-736-457-826	Sequence 826, App
18	87	10.4	2109	4	US-09-614-124B-826	Sequence 826, App
19	87	10.4	2109	4	US-09-671-325-826	Sequence 826, App
20	87	10.4	2109	4	US-09-589-184-826	Sequence 826, App
21	85.4	10.2	1619	4	US-09-702-705-801	Sequence 801, App
22	85.4	10.2	1619	4	US-09-736-457-801	Sequence 801, App
23	85.4	10.2	1619	4	US-09-614-124B-801	Sequence 801, App
24	85.4	10.2	1619	4	US-09-671-325-801	Sequence 801, App
25	85.4	10.2	1619	4	US-09-589-184-801	Sequence 801, App
26	85.4	10.2	2240	4	US-09-016-434-1100	Sequence 1100, Ap
27	85.4	10.2	4637	4	US-09-702-705-804	Sequence 804, App
28	85.4	10.2	4637	4	US-09-736-457-804	Sequence 804, App
29	85.4	10.2	4637	4	US-09-614-124B-804	Sequence 804, App
30	85.4	10.2	4637	4	US-09-671-325-804	Sequence 804, App
31	85.4	10.2	4637	4	US-09-589-184-804	Sequence 804, App
32	81.2	9.7	1987	2	US-08-990-379-1	Sequence 1, Appli
33	81.2	9.7	1993	2	US-08-990-379-2	Sequence 2, Appli
34	79.2	9.5	497	4	US-09-621-976-2865	Sequence 2865, Ap
c 35	76	9.1	539	4	US-09-389-681-311	Sequence 311, App
c 36	76	9.1	539	4	US-09-620-405B-311	Sequence 311, App
c 37	76	9.1	539	4	US-09-339-338-311	Sequence 311, App
c 38	76	9.1	539	4	US-09-433-826B-311	Sequence 311, App
c 39	76	9.1	539	4	US-09-604-287A-311	Sequence 311, App
c 40	76	9.1	539	4	US-09-834-759-311	Sequence 311, App
41	67	8.0	1878	4	US-09-620-312D-398	Sequence 398, App
42	65.4	7.8	1491	4	US-09-544-716-1	Sequence 1, Appli
c 43	61.6	7.4	320	4	US-09-389-681-310	Sequence 310, App
c 44	61.6	7.4	320	4	US-09-620-405B-310	Sequence 310, App
c 45	61.6	7.4	320	4	US-09-339-338-310	Sequence 310, App

ALIGNMENTS

RESULT 1
US-09-620-312D-364
; Sequence 364, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yunqing
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6569662el Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: pt_FL_genes Version 1.0
; SEQ ID NO 364
; LENGTH: 1394
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (487)..(1053)
US-09-620-312D-364

Query Match 96.6%; Score 805.6; DB 4; Length 1394;
Best Local Similarity 99.5%; Pred. No. 6.2e-238;
Matches 808; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Qy         23 CATTCTTGGTGTTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 82
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Qy         83 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 142
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        501 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 560

Qy        143 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 202
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        561 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 620

Qy        203 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 262
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        621 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 680

Qy        263 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 322
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        681 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 740

Qy        323 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 382
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        741 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 800

Qy        383 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 442
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        801 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 860

Qy        443 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 502
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        861 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 920

Qy        503 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 562
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        921 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 980

Qy        563 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 622
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        981 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 1040

Qy        623 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 682
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1041 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 1100

Qy        683 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 742
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1101 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 1160

Qy        743 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 802
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1161 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 1220

Qy        803 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 834
              ||||||||||||||||||||||||||||||||
Db       1221 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 1252


RESULT 2
US-09-045-973-6
; Sequence 6, Application US/09045973
; Patent No. 6165767
;  GENERAL INFORMATION:
;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Yue, Henry
;    APPLICANT:  Corley, Neil C.
;    APPLICANT:  Guegler, Karl J.
;    APPLICANT:  Baughn, Mariah
;    TITLE OF INVENTION:  PROTEIN PHOSPHATASE RELATED MOLECULES
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/045,973
;      FILING DATE:  Filed Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0491 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (650) 855-0555
;      TELEFAX:  (650) 845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1729 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  BRSTNOT16
;      CLONE:  3041794
US-09-045-973-6

  Query Match             21.3%;  Score 177.6;  DB 3;  Length 1729;
  Best Local Similarity   58.8%;  Pred. No. 2e-44;
  Matches  306;  Conservative    0;  Mismatches  214;  Indels    0;  Gaps    0;

Qy        121 GCGGCCTCTCGCAGATAACCAAAAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACA 180
              | ||| |  | || || |||       || |   |  |||  ||    |  |||  |||
Db        565 GAGGCATTGCTCAAATCACCTCCTCTCTATTCCTGGGCAGAGGCAGTGTGGCCTCCAATC 624

Qy        181 AGCTCATGCTGTCTAGCAACCAGATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGA 240
              || | | ||          ||||||   |  | ||||   |  | |||  |    |
Db        625 GGCACCTCCTCCAGGCTCGTGGCATCACCTGCATTGTTAATGCTACCATTGAGATCCCTA 684

Qy        241 ACACCTTGTATGAGGATATCCAGTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCAC 300
              |   |   |       |  |  ||||  |  | || ||| |||||||||   ||  |  | |
Db        685 ATTTCAACTGGCCCCAATTTGAGTATGTTAAAGTGCCTCTGGCTGACATGCCGCATGCCC 744

Qy        301 GTCTCTGTGACTTCTTTGACCCTATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGG 360
              |  |    | |||||||  |  | ||||||  | ||||||||  |||    | ||||||  |
Db        745 CCATTGGACTGTACTTTGACACCGTGGCTGACAAGATCCACAGTGTGAGCAGGAAGCACG 804

Qy        361 GCCGTACTTTGCTGCACTGTGCTGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCT 420
              |   || ||| |||||||||||| || ||||||||||||||  | |||||  |||| |
Db        805 GGGCCACCTTGGTGCACTGTGCTGCAGGGGTGAGCCGCTCAGCCACGCTGTGTATCGCGT 864

Qy        421 ACCTCATGAAGTACCACGCCATGTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCC 480
              |||| ||||| | ||||  | ||| |||||||||  ||  |||  |||    ||  |  | |
Db        865 ACCTGATGAAATTCCACAACGTGTGCCTGCTGGAGGCGTACAACTGGGTGAAAGCCCGGC 924

Qy        481 GGCCCATCATCCGACCCAACAGCGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAAT 540
              | ||  ||||| | ||||||    ||||| |||  ||| || ||  |||| |||  |||
Db        925 GACCTGTCATCAGGCCCAACGTAGGCTTCTGGAGGCAACTGATAGACTACGAGCGCCAGC 984

Qy        541 TGTTTGGCAAGAACACTGTGCACATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCT 600
              | ||||| |||   || ||  | |||||     | ||    || ||  | || ||| |||
Db        985 TCTTTGGGAAGTCGACAGTTAAAATGGTACAGACACCTTATGGCATAGTTCCCGACGTCT 1044

Qy        601 ATGAGAAGGAAGTCCGTTTGATGATTCCACTGTGAGCCAT 640
              |||||||||   |||     ||||  ||    || |  ||
Db       1045 ATGAGAAGGAGTCCCGACACCTGATGCCTTACTGGGGGAT 1084


RESULT 3
US-09-371-671B-10
```

; Sequence 10, Application US/09371671B
; Patent No. 6548743
; GENERAL INFORMATION:
; APPLICANT: Sheen, Jen
; APPLICANT: Chiu, Wan-Ling
; TITLE OF INVENTION: TRANSGENIC PLANTS EXPRESSING A
; TITLE OF INVENTION: DUAL-SPECIFICITY MAPK PHOSPHATASE AND USES THEREOF
; FILE REFERENCE: 00786/370002
; CURRENT APPLICATION NUMBER: US/09/371,671B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: 60/155,934
; PRIOR FILING DATE: 1999-01-14
; PRIOR APPLICATION NUMBER: 60/095,938
; PRIOR FILING DATE: 1998-08-10
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 944
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-371-671B-10

Query Match 10.6%; Score 88.8; DB 4; Length 944;
Best Local Similarity 50.5%; Pred. No. 3.1e-17;
Matches 216; Conservative 0; Mismatches 212; Indels 0; Gaps 0;

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Qy        121 GCGGCCTCTCGCAGATAACCAAAAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACA 180
              | |||||    | ||||         ||||||  |  ||| ||       |||       |
Db        517 GGGGCCCAGTGGAGATCCTGTCCTTCCTGTACCTGGGCAGTGCCTATCACGCTTCTCGGA 576

Qy        181 AGCTCATGCTGTCTAGCAACCAGATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGA 240
              ||   |||||       |      ||||||    | |||||  |||||||    |       |
Db        577 AGGATATGCTTGACGCCTTGGGCATCACCGCCTTGATCAACGTCTCAGCCAATTGTCCTA 636

Qy        241 ACACCTTGTATGAGGATATCCAGTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCAC 300
              ||  |||  | |   |  ||||||||  |    | |||||||  |||  ||  ||  ||
Db        637 ACCACTTTGAGGGTCACTACCAGTACAAGAGCATCCCTGTGGAGGACAACCACAAGGCAG 696

Qy        301 GTCTCTGTGACTTCTTTGACCCTATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGG 360
                || |   ||  ||  ||     |  ||||   ||  ||  | |  ||         |
Db        697 ACATCAGCTCCTGGTTCAACGAGGCTATTGACTTCATAGACTCCATCAAGGATGCTGGAG 756

Qy        361 GCCGTACTTTGCTGCACTGTGCTGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCT 420
              | |    ||  | || ||    || ||  |  ||| |||||  || | ||||| || |
Db        757 GGAGAGTGTTTGTTCATTGCCAGGCCGGCATCTCCCGGTCAGCCACCATCTGCCTTGCTT 816

Qy        421 ACCTCATGAAGTACCACGCCATGTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCC 480
              |||||||||  |    ||   |   |||  || |||     ||      |||    | |
Db        817 ACCTCATGAGGACTAACCGGGTAAAGCTGGACGAGGCCTTTGAGTTTGTGAAGCAGAGGC 876

Qy        481 GGCCCATCATCCGACCCAACAGCGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAAT 540
              ||   ||||||   || |||  | ||||   ||  |||||  | ||  | |||||  ||||
Db        877 GGAGTATCATCTCCCCGAACTTCAGCTTCATGGGCCAGCTGCTGCAGTTTGAGTCCCAAG 936

Qy        541 TGTTTGGC 548
              || | | |
Db        937 TGCTAGCC 944
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RESULT 4
US-09-016-434-1291
; Sequence 1291, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1291:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2000 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: g29980
US-09-016-434-1291

Query Match 10.6%; Score 88; DB 4; Length 2000;
Best Local Similarity 51.0%; Pred. No. 8.5e-17;
Matches 208; Conservative 0; Mismatches 200; Indels 0; Gaps 0;

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Qy        147 CTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCAGATC 206
              |||||  |  ||| ||        |||    |  ||||  |||||||  |  |       ||
Db        774 CTGTACCTGGGCAGTGCGTATCACGCTTCCCGCAAGGACATGCTGGATGCCTTGGGCATA 833

Qy        207 ACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCAGTAC 266
              ||      | ||||| |||||||    |          |||   ||  |  |    |||||||
Db        834 ACTGCCTTGATCAACGTCTCAGCCAATTGTCCCAACCATTTTGAGGGTCACTACCAGTAC 893

Qy        267 ATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTATT 326
              | |    | |||||||  |||  ||  ||  ||     || |   ||  ||  ||
Db        894 AAGAGCATCCCTGTGGAGGACAACCACAAGGCAGACATCAGCTCCTGGTTCAACGAGGCC 953

Qy        327 GCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGCTGCT 386
                ||||   ||  ||  | |  |||          ||  |     ||  | |||||    ||
Db        954 ATTGACTTCATAGACTCCATCAAGAATGCTGGAGGAAGGGTGTTTGTCCACTGCCAGGCA 1013

Qy        387 GGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCATGTCC 446
              ||  |   ||| |||||  || | ||||| || ||||| |||| |     |       |
Db       1014 GGCATTTCCCGGTCAGCCACCATCTGCCTTGCTTACCTTATGAGGACTAATCGAGTCAAG 1073

Qy        447 CTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAGCGGC 506
              |||   || |||     ||     |||    | ||  |||||||   ||||||  | ||
Db       1074 CTGGACGAGGCCTTTGAGTTTGTGAAGCAGAGGCGAAGCATCATCTCTCCCAACTTCAGC 1133

Qy        507 TTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAAC 554
              ||   ||  |||||  | || | ||||| |||  || | |    | ||
Db       1134 TTCATGGGCCAGCTGCTGCAGTTTGAGTCCCAGGTGCTGGCTCCGCAC 1181
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RESULT 5
US-08-530-290-11
; Sequence 11, Application US/08530290
; Patent No. 5958721
; GENERAL INFORMATION:
; APPLICANT: Marshall, Christopher John

```
;    APPLICANT:  Ashworth, Alan
;    APPLICANT:  Hughes, David Anthony
;    TITLE OF INVENTION:  Methods for Screening of Substances for
;    TITLE OF INVENTION:  Therapeutic Activity and Yeast for Use Therein
;    NUMBER OF SEQUENCES:  24
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/530,290
;      FILING DATE:  14-DEC-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  WO PCT/GB94/00694
;      FILING DATE:  31-MAR-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9402573.1
;      FILING DATE:  10-FEB-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9307250.2
;      FILING DATE:  07-APR-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Bastian, Kevin L.
;      REGISTRATION NUMBER:  34,774
;      REFERENCE/DOCKET NUMBER:  084611-000000US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1238 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA
US-08-530-290-11

  Query Match             10.4%;  Score 87;  DB 2;  Length 1238;
  Best Local Similarity   49.9%;  Pred. No. 1.3e-16;
  Matches  219;  Conservative    0;  Mismatches  220;  Indels    0;  Gaps    0;

Qy        146 CCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCAGAT 205
              ||| ||  || ||| ||        ||   |  .|    |||||||     |      ||
Db        659 CCTCTACCTCGGCAGTGCCTACCATGCTGCCCGGAGAGACATGCTGGACGCCCTGGGCAT 718

Qy        206 CACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCAGTA 265
              |||      |  | |||||||||    |||         |||  |||  | |   |    |||||
Db        719 CACGGCTCTGTTGAATGTCTCCTCGGACTGCCCAAACCACTTTGAAGGACACTATCAGTA 778

Qy        266 CATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTAT 325
              || |    | || ||||  ||   ||  ||  |     || |   ||  ||
Db        779 CAAGTGCATCCCAGTGGAAGATAACCACAAGGCCGACATCAGCTCCTGGTTCATGGAAGC 838

Qy        326 TGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGCTGC 385
                ||  | ||| |   |||| ||       |  || ||      || |||||||    ||
Db        839 CATAGAGTACATCGATGCCGTGAAGGACTGCCGTGGGCGCGTGCTGGTGCACTGCCAGGC 898

Qy        386 TGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCATGTC 445
              ||  |    || || ||  || | ||||| ||||||| |||| | |   |      ||
Db        899 GGGCATCTCGCGGTCGGCCACCATCTGCCTGGCCTACCTGATGATGAAGAAACGGGTGAG 958

Qy        446 CCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAGCGG 505
              |||  ||| |||  |  ||    |||   ||||  |||||||   ||||||  | |
Db        959 GCTGGAGGAGGCCTTCGAGTTCGTTAAGCAGCGCCGCAGCATCATCTCGCCCAACTTCAG 1018

Qy        506 CTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCACAT 565
              |||   || ||||||  | || |  |||| |||  || | | || |  |  ||
Db       1019 CTTCATGGGGCAGCTGCTGCAGTTCGAGTCCCAGGTGCTGGCCACGTCCTGTGCTGCGGA 1078

Qy        566 GGTCAGTTCCCCAGTGGGA 584
              ||    |  |||   ||||
Db       1079 GGCTGCTAGCCCCTCGGGA 1097


RESULT 6
US-09-702-705-803
; Sequence 803, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Bangur, Chaitanya S.
;  APPLICANT:  Lodes, Michael A.
;  APPLICANT:  Fanger, Gary
;  APPLICANT:  Vedvick, Tom
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Retter, Marc
;  APPLICANT:  Mannion, Jane
;  APPLICANT:  Fan, Liqun
;  TITLE OF INVENTION:  COMPOSITIONS AND METHODS FOR THE THERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF LUNG CANCER
;  FILE REFERENCE:  210121.478C14
;  CURRENT APPLICATION NUMBER: US/09/702,705
;  CURRENT FILING DATE:  2000-10-30
;  NUMBER OF SEQ ID NOS:  1833
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 803
;   LENGTH: 1238
;   TYPE: DNA
;   ORGANISM: Homo sapien
US-09-702-705-803

  Query Match             10.4%;  Score 87;  DB 4;  Length 1238;
  Best Local Similarity   49.9%;  Pred. No. 1.3e-16;
  Matches  219;  Conservative    0;  Mismatches  220;  Indels    0;  Gaps    0;

Qy        146 CCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCAGAT 205
              ||| ||  || ||| ||        ||   |  .|    |||||||     |      ||
Db        659 CCTCTACCTCGGCAGTGCCTACCATGCTGCCCGGAGAGACATGCTGGACGCCCTGGGCAT 718

Qy        206 CACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCAGTA 265
              |||      |  | |||||||||    |||         |||  |||  | |   |    |||||
Db        719 CACGGCTCTGTTGAATGTCTCCTCGGACTGCCCAAACCACTTTGAAGGACACTATCAGTA 778

Qy        266 CATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTAT 325
              || |    | || ||||  ||   ||  ||  |     || |   ||  ||
Db        779 CAAGTGCATCCCAGTGGAAGATAACCACAAGGCCGACATCAGCTCCTGGTTCATGGAAGC 838

Qy        326 TGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGCTGC 385
                ||  | ||| |   |||| ||       |  || ||      || |||||||    ||
Db        839 CATAGAGTACATCGATGCCGTGAAGGACTGCCGTGGGCGCGTGCTGGTGCACTGCCAGGC 898

Qy        386 TGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCATGTC 445
              ||  |    || || ||  || | ||||| ||||||| |||| | |   |      ||
Db        899 GGGCATCTCGCGGTCGGCCACCATCTGCCTGGCCTACCTGATGATGAAGAAACGGGTGAG 958

Qy        446 CCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAGCGG 505
              |||  ||| |||  |  ||    |||   ||||  |||||||   ||||||  | |
Db        959 GCTGGAGGAGGCCTTCGAGTTCGTTAAGCAGCGCCGCAGCATCATCTCGCCCAACTTCAG 1018

Qy        506 CTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCACAT 565
              |||   || ||||||  | || |  |||| |||  || | | || |  |  ||
Db       1019 CTTCATGGGGCAGCTGCTGCAGTTCGAGTCCCAGGTGCTGGCCACGTCCTGTGCTGCGGA 1078

Qy        566 GGTCAGTTCCCCAGTGGGA 584
              ||    |  |||   ||||
Db       1079 GGCTGCTAGCCCCTCGGGA 1097
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RESULT 7
US-09-736-457-803
; Sequence 803, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Bangur, Chaitanya S.
;  APPLICANT:  Lodes, Michael A.
;  APPLICANT:  Fanger, Gary
;  APPLICANT:  Vedvick, Tom
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Retter, Marc
;  APPLICANT:  Mannion, Jane
;  APPLICANT:  Fan, Liqun
;  APPLICANT:  Wang, Aijun
;  TITLE OF INVENTION:  COMPOSITIONS AND METHODS FOR THE THERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF LUNG CANCER
;  FILE REFERENCE:  210121.478C15
;  CURRENT APPLICATION NUMBER: US/09/736,457
;  CURRENT FILING DATE:  2000-12-13
;  NUMBER OF SEQ ID NOS:  1864
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 803
;   LENGTH: 1238
;   TYPE: DNA
;   ORGANISM: Homo sapien
US-09-736-457-803

  Query Match             10.4%;  Score 87;  DB 4;  Length 1238;
  Best Local Similarity   49.9%;  Pred. No. 1.3e-16;
  Matches  219;  Conservative    0;  Mismatches  220;  Indels    0;  Gaps    0;

Qy        146 CCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCAGAT 205
              ||| ||  || ||| ||         ||   |   |    |||||||     |       ||
Db        659 CCTCTACCTCGGCAGTGCCTACCATGCTGCCCGGAGAGACATGCTGGACGCCCTGGGCAT 718

Qy        206 CACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCAGTA 265
              |||     |  | ||||||||   |||       |||  |||  | |   |    |||||
Db        719 CACGGCTCTGTTGAATGTCTCCTCGGACTGCCCAAACCACTTTGAAGGACACTATCAGTA 778

Qy        266 CATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTAT 325
              || |    | || ||||  ||   ||  ||  |      || |   ||  ||
Db        779 CAAGTGCATCCCAGTGGAAGATAACCACAAGGCCGACATCAGCTCCTGGTTCATGGAAGC 838

Qy        326 TGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGCTGC 385
                ||  | |||  |   |||| ||       |  || ||     || |||||||    ||
Db        839 CATAGAGTACATCGATGCCGTGAAGGACTGCCGTGGGCGCGTGCTGGTGCACTGCCAGGC 898

Qy        386 TGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCATGTC 445
              ||  |    || || ||  || | ||||| |||||||| |||| | |   |     ||
Db        899 GGGCATCTCGCGGTCGGCCACCATCTGCCTGGCCTACCTGATGATGAAGAAACGGGTGAG 958

Qy        446 CCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAGCGG 505
              |||  ||| |||  |  ||      |||    ||||   |||||||   ||||||  | |
Db        959 GCTGGAGGAGGCCTTCGAGTTCGTTAAGCAGCGCCGCAGCATCATCTCGCCCAACTTCAG 1018

Qy        506 CTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCACAT 565
              |||   || ||||||  | || |  |||| |||  || | | || |   |  ||
Db       1019 CTTCATGGGGCAGCTGCTGCAGTTCGAGTCCCAGGTGCTGGCCACGTCCTGTGCTGCGGA 1078

Qy        566 GGTCAGTTCCCCAGTGGGA 584
              ||    |  |||   ||||
Db       1079 GGCTGCTAGCCCCTCGGGA 1097


RESULT 8
US-09-614-124B-803
; Sequence 803, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
;  APPLICANT: Wang, Tongtong
;  APPLICANT:  Bangur, Chaitanya S.
;  APPLICANT:  Lodes, Michael A.
;  APPLICANT:  Fanger, Gary
;  APPLICANT:  Vedvick, Tom
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Retter, Marc
;  APPLICANT:  Mannion, Jane
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF LUNG CANCER
;  FILE REFERENCE: 210121.478C9
;  CURRENT APPLICATION NUMBER: US/09/614,124B
;  CURRENT FILING DATE:  2001-07-11
;  NUMBER OF SEQ ID NOS: 1668
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 803
;   LENGTH: 1238
;   TYPE: DNA
;   ORGANISM: Homo sapien
US-09-614-124B-803

  Query Match             10.4%;  Score 87;  DB 4;  Length 1238;
  Best Local Similarity   49.9%;  Pred. No. 1.3e-16;
  Matches  219;  Conservative    0;  Mismatches  220;  Indels    0;  Gaps    0;

Qy        146 CCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCAGAT 205
              ||| ||  || ||| ||         ||   |   |    |||||||     |       ||
Db        659 CCTCTACCTCGGCAGTGCCTACCATGCTGCCCGGAGAGACATGCTGGACGCCCTGGGCAT 718

Qy        206 CACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCAGTA 265
              |||     |  | ||||||||   |||       |||  |||  | |   |    |||||
Db        719 CACGGCTCTGTTGAATGTCTCCTCGGACTGCCCAAACCACTTTGAAGGACACTATCAGTA 778

Qy        266 CATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTAT 325
              || |    | || ||||  ||   ||  ||  |      || |   ||  ||
Db        779 CAAGTGCATCCCAGTGGAAGATAACCACAAGGCCGACATCAGCTCCTGGTTCATGGAAGC 838

Qy        326 TGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGCTGC 385
                ||  | |||  |   |||| ||       |  || ||     || |||||||    ||
Db        839 CATAGAGTACATCGATGCCGTGAAGGACTGCCGTGGGCGCGTGCTGGTGCACTGCCAGGC 898

Qy        386 TGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCATGTC 445
              ||  |    || || ||  || | ||||| |||||||| |||| | |   |     ||
Db        899 GGGCATCTCGCGGTCGGCCACCATCTGCCTGGCCTACCTGATGATGAAGAAACGGGTGAG 958

Qy        446 CCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAGCGG 505
              |||  ||| |||  |  ||      |||    ||||   |||||||   ||||||  | |
Db        959 GCTGGAGGAGGCCTTCGAGTTCGTTAAGCAGCGCCGCAGCATCATCTCGCCCAACTTCAG 1018

Qy        506 CTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCACAT 565
              |||   || ||||||  | || |  |||| |||  || | | || |   |  ||
Db       1019 CTTCATGGGGCAGCTGCTGCAGTTCGAGTCCCAGGTGCTGGCCACGTCCTGTGCTGCGGA 1078

Qy        566 GGTCAGTTCCCCAGTGGGA 584
              ||    |  |||   ||||
Db       1079 GGCTGCTAGCCCCTCGGGA 1097


RESULT 9
US-09-671-325-803
; Sequence 803, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Bangur, Chaitanya S.
;  APPLICANT:  Lodes, Michael A.
;  APPLICANT:  Fanger, Gary
;  APPLICANT:  Vedvick, Tom
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Retter, Marc
;  APPLICANT:  Mannion, Jane
;  APPLICANT:  Fan, Liqun
;  TITLE OF INVENTION:  COMPOSITIONS AND METHODS FOR THE THERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF LUNG CANCER
;  FILE REFERENCE:  210121.478C12
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;  CURRENT APPLICATION NUMBER: US/09/671,325
;  CURRENT FILING DATE:  2000-09-26
;  NUMBER OF SEQ ID NOS:  1825
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 803
;   LENGTH: 1238
;   TYPE: DNA
;   ORGANISM: Homo sapien
US-09-671-325-803

  Query Match            10.4%;  Score 87;  DB 4;  Length 1238;
  Best Local Similarity  49.9%;  Pred. No. 1.3e-16;
  Matches  219;  Conservative    0;  Mismatches  220;  Indels    0;  Gaps    0;

Qy        146 CCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCAGAT 205
              ||| ||  || ||| ||        ||   |   |    |||||||     |       ||
Db        659 CCTCTACCTCGGCAGTGCCTACCATGCTGCCCGGAGAGACATGCTGGACGCCCTGGGCAT 718

Qy        206 CACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCAGTA 265
              |||      |  | ||||||||   |||        |||  ||| | |   |    |||||
Db        719 CACGGCTCTGTTGAATGTCTCCTCGGACTGCCCAAACCACTTTGAAGGACACTATCAGTA 778

Qy        266 CATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTAT 325
              || |    | || ||||  ||   ||  ||  |      || |   ||  ||
Db        779 CAAGTGCATCCCAGTGGAAGATAACCACAAGGCCGACATCAGCTCCTGGTTCATGGAAGC 838

Qy        326 TGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGCTGC 385
                ||  | ||| |   |||| ||       |  || ||     || |||||||    ||
Db        839 CATAGAGTACATCGATGCCGTGAAGGACTGCCGTGGGCGCGTGCTGGTGCACTGCCAGGC 898

Qy        386 TGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCATGTC 445
              ||  |    || || ||  || | ||||| |||||||| |||| | |   |     ||
Db        899 GGGCATCTCGCGGTCGGCCACCATCTGCCTGGCCTACCTGATGATGAAGAAACGGGTGAG 958

Qy        446 CCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAGCGG 505
              |||  ||| ||| |  ||     |||    ||||   |||||||   ||||||  | |
Db        959 GCTGGAGGAGGCCTTCGAGTTCGTTAAGCAGCGCCGCAGCATCATCTCGCCCAACTTCAG 1018

Qy        506 CTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCACAT 565
              |||   || ||||||  | || |  |||| |||  || | | || |   |  ||
Db       1019 CTTCATGGGGCAGCTGCTGCAGTTCGAGTCCCAGGTGCTGGCCACGTCCTGTGCTGCGGA 1078

Qy        566 GGTCAGTTCCCCAGTGGGA 584
              ||    |  |||  ||||
Db       1079 GGCTGCTAGCCCCTCGGGA 1097


RESULT 10
US-09-589-184-803
; Sequence 803, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Bangur, Chaitanya S.
;  APPLICANT:  Lodes, Michael A.
;  APPLICANT:  Fanger, Gary
;  APPLICANT:  Vedvick, Tom
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Retter, Marc
;  APPLICANT:  Mannion, Jane
;  TITLE OF INVENTION:  COMPOSITIONS AND METHODS FOR THERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF LUNG CANCER
;  FILE REFERENCE:  210121.478C8
;  CURRENT APPLICATION NUMBER: US/09/589,184
;  CURRENT FILING DATE:  2000-06-05
;  NUMBER OF SEQ ID NOS:  827
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 803
;   LENGTH: 1238
;   TYPE: DNA
;   ORGANISM: Homo sapien
US-09-589-184-803

  Query Match            10.4%;  Score 87;  DB 4;  Length 1238;
  Best Local Similarity  49.9%;  Pred. No. 1.3e-16;
  Matches  219;  Conservative    0;  Mismatches  220;  Indels    0;  Gaps    0;

Qy        146 CCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCAGAT 205
              ||| ||  || ||| ||        ||   |   |    |||||||     |       ||
Db        659 CCTCTACCTCGGCAGTGCCTACCATGCTGCCCGGAGAGACATGCTGGACGCCCTGGGCAT 718

Qy        206 CACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCAGTA 265
              |||      |  | ||||||||   |||        |||  ||| | |   |    |||||
Db        719 CACGGCTCTGTTGAATGTCTCCTCGGACTGCCCAAACCACTTTGAAGGACACTATCAGTA 778

Qy        266 CATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTAT 325
              || |    | || ||||  ||   ||  ||  |      || |   ||  ||
Db        779 CAAGTGCATCCCAGTGGAAGATAACCACAAGGCCGACATCAGCTCCTGGTTCATGGAAGC 838

Qy        326 TGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGCTGC 385
                ||  | ||| |   |||| ||       |  || ||     || |||||||    ||
Db        839 CATAGAGTACATCGATGCCGTGAAGGACTGCCGTGGGCGCGTGCTGGTGCACTGCCAGGC 898

Qy        386 TGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCATGTC 445
              ||  |    || || ||  || | ||||| |||||||| |||| | |   |     ||
Db        899 GGGCATCTCGCGGTCGGCCACCATCTGCCTGGCCTACCTGATGATGAAGAAACGGGTGAG 958

Qy        446 CCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAGCGG 505
              |||  ||| ||| |  ||     |||    ||||   |||||||   ||||||  | |
Db        959 GCTGGAGGAGGCCTTCGAGTTCGTTAAGCAGCGCCGCAGCATCATCTCGCCCAACTTCAG 1018

Qy        506 CTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCACAT 565
              |||   || ||||||  | || |  |||| |||  || | | || |   |  ||
Db       1019 CTTCATGGGGCAGCTGCTGCAGTTCGAGTCCCAGGTGCTGGCCACGTCCTGTGCTGCGGA 1078

Qy        566 GGTCAGTTCCCCAGTGGGA 584
              ||    |  |||  ||||
Db       1079 GGCTGCTAGCCCCTCGGGA 1097


RESULT 11
US-09-702-705-825
; Sequence 825, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Bangur, Chaitanya S.
;  APPLICANT:  Lodes, Michael A.
;  APPLICANT:  Fanger, Gary
;  APPLICANT:  Vedvick, Tom
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Retter, Marc
;  APPLICANT:  Mannion, Jane
;  APPLICANT:  Fan, Liqun
;  TITLE OF INVENTION:  COMPOSITIONS AND METHODS FOR THE THERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF LUNG CANCER
;  FILE REFERENCE:  210121.478C14
;  CURRENT APPLICATION NUMBER: US/09/702,705
;  CURRENT FILING DATE:  2000-10-30
;  NUMBER OF SEQ ID NOS:  1833
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 825
;   LENGTH: 2064
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-702-705-825

  Query Match            10.4%;  Score 87;  DB 4;  Length 2064;
  Best Local Similarity  49.9%;  Pred. No. 1.8e-16;
  Matches  219;  Conservative    0;  Mismatches  220;  Indels    0;  Gaps    0;

Qy        146 CCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCAGAT 205
              ||| ||  || ||| ||        ||   |   |    |||||||     |       ||
Db       1002 CCTCTACCTCGGCAGTGCCTACCATGCTGCCCGGAGAGACATGCTGGACGCCCTGGGCAT 1061

Qy        206 CACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCAGTA 265
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Db       1062 CACGGCTCTGTTGAATGTCTCCTCGGACTGCCCAAACCACTTTGAAGGACACTATCAGTA 1121

Qy        266 CATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTAT 325

Db       1122 CAAGTGCATCCCAGTGGAAGATAACCACAAGGCCGACATCAGCTCCTGGTTCATGGAAGC 1181

Qy        326 TGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGCTGC 385

Db       1182 CATAGAGTACATCGATGCCGTGAAGGACTGCCGTGGGCGCGTGCTGGTGCACTGCCAGGC 1241

Qy        386 TGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCATGTC 445

Db       1242 GGGCATCTCGCGGTCGGCCACCATCTGCCTGGCCTACCTGATGATGAAGAAACGGGTGAG 1301

Qy        446 CCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAGCGG 505

Db       1302 GCTGGAGGAGGCCTTCGAGTTCGTTAAGCAGCGCCGCAGCATCATCTCGCCCAACTTCAG 1361

Qy        506 CTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCACAT 565

Db       1362 CTTCATGGGGCAGCTGCTGCAGTTCGAGTCCCAGGTGCTGGCCACGTCCTGTGCTGCGGA 1421

Qy        566 GGTCAGTTCCCCAGTGGGA 584

Db       1422 GGCTGCTAGCCCCTCGGGA 1440
```

RESULT 12
US-09-736-457-825
; Sequence 825, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 825
; LENGTH: 2064
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-736-457-825

Query Match 10.4%; Score 87; DB 4; Length 2064;
Best Local Similarity 49.9%; Pred. No. 1.8e-16;
Matches 219; Conservative 0; Mismatches 220; Indels 0; Gaps 0;

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Qy        146 CCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCAGAT 205

Db       1002 CCTCTACCTCGGCAGTGCCTACCATGCTGCCCGGAGAGACATGCTGGACGCCCTGGGCAT 1061

Qy        206 CACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCAGTA 265

Db       1062 CACGGCTCTGTTGAATGTCTCCTCGGACTGCCCAAACCACTTTGAAGGACACTATCAGTA 1121

Qy        266 CATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTAT 325

Db       1122 CAAGTGCATCCCAGTGGAAGATAACCACAAGGCCGACATCAGCTCCTGGTTCATGGAAGC 1181

Qy        326 TGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGCTGC 385

Db       1182 CATAGAGTACATCGATGCCGTGAAGGACTGCCGTGGGCGCGTGCTGGTGCACTGCCAGGC 1241

Qy        386 TGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCATGTC 445

Db       1242 GGGCATCTCGCGGTCGGCCACCATCTGCCTGGCCTACCTGATGATGAAGAAACGGGTGAG 1301

Qy        446 CCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAGCGG 505

Db       1302 GCTGGAGGAGGCCTTCGAGTTCGTTAAGCAGCGCCGCAGCATCATCTCGCCCAACTTCAG 1361

Qy        506 CTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCACAT 565

Db       1362 CTTCATGGGGCAGCTGCTGCAGTTCGAGTCCCAGGTGCTGGCCACGTCCTGTGCTGCGGA 1421

Qy        566 GGTCAGTTCCCCAGTGGGA 584

Db       1422 GGCTGCTAGCCCCTCGGGA 1440
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RESULT 13
US-09-614-124B-825
; Sequence 825, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614,124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 825
; LENGTH: 2064
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-614-124B-825

Query Match 10.4%; Score 87; DB 4; Length 2064;
Best Local Similarity 49.9%; Pred. No. 1.8e-16;
Matches 219; Conservative 0; Mismatches 220; Indels 0; Gaps 0;

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Qy        146 CCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCAGAT 205

Db       1002 CCTCTACCTCGGCAGTGCCTACCATGCTGCCCGGAGAGACATGCTGGACGCCCTGGGCAT 1061

Qy        206 CACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCAGTA 265

Db       1062 CACGGCTCTGTTGAATGTCTCCTCGGACTGCCCAAACCACTTTGAAGGACACTATCAGTA 1121

Qy        266 CATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTAT 325

Db       1122 CAAGTGCATCCCAGTGGAAGATAACCACAAGGCCGACATCAGCTCCTGGTTCATGGAAGC 1181

Qy        326 TGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGCTGC 385

Db       1182 CATAGAGTACATCGATGCCGTGAAGGACTGCCGTGGGCGCGTGCTGGTGCACTGCCAGGC 1241

Qy        386 TGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCATGTC 445

Db       1242 GGGCATCTCGCGGTCGGCCACCATCTGCCTGGCCTACCTGATGATGAAGAAACGGGTGAG 1301

Qy        446 CCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAGCGG 505

Db       1302 GCTGGAGGAGGCCTTCGAGTTCGTTAAGCAGCGCCGCAGCATCATCTCGCCCAACTTCAG 1361

Qy        506 CTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCACAT 565

Db       1362 CTTCATGGGGCAGCTGCTGCAGTTCGAGTCCCAGGTGCTGGCCACGTCCTGTGCTGCGGA 1421

Qy        566 GGTCAGTTCCCCAGTGGGA 584

Db       1422 GGCTGCTAGCCCCTCGGGA 1440
```

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Qy        506 CTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCACAT 565
              |||   || ||||||  | || |  |||| |||  || | | || |  |  ||
Db       1362 CTTCATGGGGCAGCTGCTGCAGTTCGAGTCCCAGGTGCTGGCCACGTCCTGTGCTGCGGA 1421

Qy        566 GGTCAGTTCCCCAGTGGGA 584
              ||    |  |||   ||||
Db       1422 GGCTGCTAGCCCCTCGGGA 1440


RESULT 14
US-09-671-325-825
; Sequence 825, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Bangur, Chaitanya S.
;  APPLICANT:  Lodes, Michael A.
;  APPLICANT:  Fanger, Gary
;  APPLICANT:  Vedvick, Tom
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Retter, Marc
;  APPLICANT:  Mannion, Jane
;  APPLICANT:  Fan, Liqun
;  TITLE OF INVENTION:  COMPOSITIONS AND METHODS FOR THE THERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF LUNG CANCER
;  FILE REFERENCE:  210121.478C12
;  CURRENT APPLICATION NUMBER: US/09/671,325
;  CURRENT FILING DATE:  2000-09-26
;  NUMBER OF SEQ ID NOS:  1825
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 825
;   LENGTH: 2064
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-671-325-825

  Query Match             10.4%;  Score 87;  DB 4;  Length 2064;
  Best Local Similarity   49.9%;  Pred. No. 1.8e-16;
  Matches  219;  Conservative    0;  Mismatches  220;  Indels    0;  Gaps    0;

Qy        146 CCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCAGAT 205
              ||| ||  || ||| ||         ||   |   |    |||||||     |     ||
Db       1002 CCTCTACCTCGGCAGTGCCTACCATGCTGCCCGGAGAGACATGCTGGACGCCCTGGGCAT 1061

Qy        206 CACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCAGTA 265
              |||      |  | ||||||||   |||        |||  |||  | |   |    |||||
Db       1062 CACGGCTCTGTTGAATGTCTCCTCGGACTGCCCAAACCACTTTGAAGGACACTATCAGTA 1121

Qy        266 CATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTAT 325
              || |     | || ||||  ||   ||  ||  |     || |   ||  ||
Db       1122 CAAGTGCATCCCAGTGGAAGATAACCACAAGGCCGACATCAGCTCCTGGTTCATGGAAGC 1181

Qy        326 TGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGCTGC 385
                ||  | ||| |   |||| ||       |  || ||      || |||||||    ||
Db       1182 CATAGAGTACATCGATGCCGTGAAGGACTGCCGTGGGCGCGTGCTGGTGCACTGCCAGGC 1241

Qy        386 TGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCATGTC 445
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Qy        446 CCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAGCGG 505
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RESULT 15
US-09-589-184-825
; Sequence 825, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
;  APPLICANT:  Wang, Tongtong
;  APPLICANT:  Bangur, Chaitanya S.
;  APPLICANT:  Lodes, Michael A.
;  APPLICANT:  Fanger, Gary
;  APPLICANT:  Vedvick, Tom
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Retter, Marc
;  APPLICANT:  Mannion, Jane
;  TITLE OF INVENTION:  COMPOSITIONS AND METHODS FOR THERAPY AND
;  TITLE OF INVENTION:  DIAGNOSIS OF LUNG CANCER
;  FILE REFERENCE:  210121.478C8
;  CURRENT APPLICATION NUMBER: US/09/589,184
;  CURRENT FILING DATE:  2000-06-05
;  NUMBER OF SEQ ID NOS:  827
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 825
;   LENGTH: 2064
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-589-184-825

  Query Match             10.4%;  Score 87;  DB 4;  Length 2064;
  Best Local Similarity   49.9%;  Pred. No. 1.8e-16;
  Matches  219;  Conservative    0;  Mismatches  220;  Indels    0;  Gaps    0;

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Qy        206 CACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCAGTA 265
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Qy        266 CATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTAT 325
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Qy        386 TGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCATGTC 445
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Qy        506 CTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCACAT 565
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Qy        566 GGTCAGTTCCCCAGTGGGA 584
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Search completed: July 27, 2004, 05:47:05
Job time : 79 secs
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GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: July 27, 2004, 05:05:10 ; Search time 1574 Seconds
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Title: US-09-527-376-1
Perfect score: 834
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3216467 seqs, 2444149694 residues

Total number of hits satisfying chosen parameters: 6432934

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	805.6	96.6	1140	9	US-09-764-869-257	Sequence 257, App
2	805.6	96.6	1140	15	US-10-091-504-257	Sequence 257, App
3	805.6	96.6	1140	15	US-10-103-313-263	Sequence 263, App
4	805.6	96.6	1140	16	US-10-227-577-257	Sequence 257, App
5	805.6	96.6	1394	15	US-10-037-270-364	Sequence 364, App
6	805.6	96.6	1394	16	US-10-117-722-364	Sequence 364, App
7	805.6	96.6	1407	15	US-10-181-590-15	Sequence 15, Appl
8	805.6	96.6	2454	16	US-10-094-749-720	Sequence 720, App
9	805.2	96.5	2305	13	US-10-027-632-101755	Sequence 101755,
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11	804	96.4	7537	9	US-09-764-869-1735	Sequence 1735, Ap
12	804	96.4	7537	15	US-10-091-504-1735	Sequence 1735, Ap
13	804	96.4	7537	16	US-10-227-577-1735	Sequence 1735, Ap
14	800.8	96.0	1417	15	US-10-087-887-21	Sequence 21, Appl
15	612.8	73.5	624	16	US-10-052-648A-29	Sequence 29, Appl
c 16	567	68.0	567	15	US-10-029-386-22672	Sequence 22672, A
c 17	496	59.5	496	9	US-09-864-761-26715	Sequence 26715, A
c 18	463	55.5	463	9	US-09-864-761-10073	Sequence 10073, A
c 19	429.4	51.5	524	15	US-10-029-386-8951	Sequence 8951, Ap
20	361	43.3	923	14	US-10-044-205A-41	Sequence 41, Appl
21	340.8	40.9	570	14	US-10-044-205A-43	Sequence 43, Appl
22	177.6	21.3	1471	16	US-10-428-487-39	Sequence 39, Appl
23	152.6	18.3	456	9	US-09-864-761-30844	Sequence 30844, A
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29	88	10.6	2000	9	US-09-969-708-276	Sequence 276, App
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31	88	10.6	2000	9	US-09-880-107-3774	Sequence 3774, Ap
32	88	10.6	2000	10	US-09-960-706-1082	Sequence 1082, Ap
33	88	10.6	2000	13	US-10-240-425-1545	Sequence 1545, Ap
34	88	10.6	2000	16	US-10-305-720-1291	Sequence 1291, Ap
35	88	10.6	2015	16	US-10-341-434-92	Sequence 92, Appl
36	88	10.6	2047	17	US-10-115-635-46	Sequence 46, Appl
37	88	10.6	2616	10	US-09-971-429B-41	Sequence 41, Appl
38	88	10.6	2672	15	US-10-247-671-118	Sequence 118, App
39	88	10.6	3218	10	US-09-971-392-4	Sequence 4, Appli
40	87	10.4	1209	9	US-09-902-941-1918	Sequence 1918, Ap
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43	87	10.4	1209	15	US-10-017-754-1918	Sequence 1918, Ap
44	87	10.4	1209	15	US-10-113-872-1918	Sequence 1918, Ap
45	87	10.4	1238	9	US-09-736-457-803	Sequence 803, App

ALIGNMENTS

RESULT 1
US-09-764-869-257
; Sequence 257, Application US/09764869
; Patent No. US20020061521A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007
; CURRENT APPLICATION NUMBER: US/09/764,869
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2442
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 257
; LENGTH: 1140
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1104)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-764-869-257

Query Match 96.6%; Score 805.6; DB 9; Length 1140;
Best Local Similarity 99.5%; Pred. No. 6.3e-244;
Matches 808; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db        216 CAGCCTTCGTGCTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 275

Qy         83 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 142
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy        143 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 202
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Db        336 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 395

Qy        203 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 262
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Db        396 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 455

Qy        263 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 322
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Qy        323 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 382
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Db        516 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 575

Qy        383 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 442
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Db        576 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 635

Qy        443 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 502
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Qy        503 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 562
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RESULT 2
US-10-091-504-257
; Sequence 257, Application US/10091504
; Publication No. US20030059908A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
;  FILE REFERENCE: PC007C1
;  CURRENT APPLICATION NUMBER: US/10/091,504
;  CURRENT FILING DATE:  2002-03-07
;  NUMBER OF SEQ ID NOS: 2442
;  Prior Application removed - See File Wrapper or Palm
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 257
;   LENGTH: 1140
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1104)
;   OTHER INFORMATION: n equals a,t,g, or c
US-10-091-504-257

  Query Match             96.6%;  Score 805.6;  DB 15;  Length 1140;
  Best Local Similarity   99.5%;  Pred. No. 6.3e-244;
  Matches  808;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy         23 CATTCTTGGTGTTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 82
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Qy         83 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 142
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Qy        143 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 202
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Qy        203 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 262
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Qy        263 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 322
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Qy        323 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 382
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RESULT 3
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; Sequence 263, Application US/10103313
; Publication No. US20030082758A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
;  FILE REFERENCE: PJZ07C1
;  CURRENT APPLICATION NUMBER: US/10/103,313
;  CURRENT FILING DATE:  2002-03-12
;  NUMBER OF SEQ ID NOS: 653
;      Prior Application removed - See File Wrapper or Palm
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 263
;   LENGTH: 1140
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;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1104)
;   OTHER INFORMATION: n equals a,t,g, or c
US-10-103-313-263

  Query Match             96.6%;  Score 805.6;  DB 15;  Length 1140;
  Best Local Similarity   99.5%;  Pred. No. 6.3e-244;
  Matches  808;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

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Qy         83 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 142
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Qy        203 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 262
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Qy        263 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 322
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Db        456 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 515

Qy        323 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 382
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        516 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 575

Qy        383 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 442
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        576 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 635

Qy        443 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 502
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        636 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 695

Qy        503 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 562
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        696 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 755

Qy        563 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 622
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        756 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 815

Qy        623 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 682
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        816 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 875

Qy        683 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 742
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        876 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 935

Qy        743 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 802
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        936 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 995

Qy        803 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 834
              ||||||||||||||||||||||||||||||||
Db        996 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 1027


RESULT 4
US-10-227-577-257
; Sequence 257, Application US/10227577
; Publication No. US20040005575A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
;  FILE REFERENCE: PC007C2
;  CURRENT APPLICATION NUMBER: US/10/227,577
;  CURRENT FILING DATE:  2002-08-26
;  PRIOR APPLICATION NUMBER: 10/091,504
;  PRIOR FILING DATE: 2002-03-07
;  PRIOR APPLICATION NUMBER: 09/764,869
;  PRIOR FILING DATE: 2001-01-17
;  PRIOR APPLICATION NUMBER: 60/179,065
;  PRIOR FILING DATE: 2000-01-31
;  PRIOR APPLICATION NUMBER: 60/180,628
;  PRIOR FILING DATE: 2000-02-04
;  PRIOR APPLICATION NUMBER: 60/214,886
;  PRIOR FILING DATE: 2000-06-28
;  PRIOR APPLICATION NUMBER: 60/217,487
;  PRIOR FILING DATE: 2000-07-11
;  PRIOR APPLICATION NUMBER: 60/225,758
;  PRIOR FILING DATE: 2000-08-14
;  PRIOR APPLICATION NUMBER: 60/220,963
;  PRIOR FILING DATE: 2000-07-26
;  PRIOR APPLICATION NUMBER: 60/217,496
;  PRIOR FILING DATE: 2000-07-11
;  PRIOR APPLICATION NUMBER: 60/225,447
;  PRIOR FILING DATE: 2000-08-14
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 2442
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 257
;   LENGTH: 1140
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1104)
;   OTHER INFORMATION: n equals a,t,g, or c
US-10-227-577-257

  Query Match             96.6%;  Score 805.6;  DB 16;  Length 1140;
  Best Local Similarity   99.5%;  Pred. No. 6.3e-244;
  Matches  808;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy         23 CATTCTTGGTGTTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 82
              ||  ||| ||| ||||||||||||||||||||||||||||||||||||||||||||||||
Db        216 CAGCCTTCGTGCTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 275

Qy         83 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 142
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        276 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 335

Qy        143 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 202
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        336 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 395

Qy        203 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 262
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        396 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 455

Qy        263 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 322
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        456 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 515

Qy        323 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 382
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        516 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 575

Qy        383 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 442
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        576 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 635

Qy        443 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 502
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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```
Db        636 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 695

Qy        503 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 562
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        696 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 755

Qy        563 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 622
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        756 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 815

Qy        623 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 682
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        816 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 875

Qy        683 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 742
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        876 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 935

Qy        743 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 802
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        936 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 995

Qy        803 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 834
              ||||||||||||||||||||||||||||||||
Db        996 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 1027
```

RESULT 5
US-10-037-270-364
; Sequence 364, Application US/10037270
; Publication No. US20030104529A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yunqing
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: Tillinghast, John
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. US20030104529A1el Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/10/037,270
; CURRENT FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1104
; SOFTWARE: pt_FL_genes Version 1.0
; SEQ ID NO 364
; LENGTH: 1394
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (487)..(1053)
US-10-037-270-364

Query Match 96.6%; Score 805.6; DB 15; Length 1394;
Best Local Similarity 99.5%; Pred. No. 7.2e-244;
Matches 808; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Qy         23 CATTCTTGGTGTTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 82
              ||  ||| ||| ||||||||||||||||||||||||||||||||||||||||||||||||
Db        441 CAGCCTTCGTGCTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 500

Qy         83 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 142
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        501 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 560

Qy        143 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 202
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        561 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 620

Qy        203 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 262
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        621 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 680

Qy        263 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 322
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        681 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 740

Qy        323 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 382
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        741 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 800

Qy        383 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 442
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        801 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 860

Qy        443 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 502
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        861 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 920

Qy        503 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 562
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        921 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 980

Qy        563 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 622
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        981 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 1040

Qy        623 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 682
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1041 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 1100

Qy        683 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 742
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1101 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 1160

Qy        743 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 802
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1161 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 1220

Qy        803 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 834
              ||||||||||||||||||||||||||||||||
Db       1221 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 1252
```

RESULT 6
US-10-117-722-364
; Sequence 364, Application US/10117722
; Publication No. US20030219744A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. US20030219744A1el Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 784CIP2BCIP
; CURRENT APPLICATION NUMBER: US/10/117,722
; CURRENT FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: 09/620,312

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;  PRIOR FILING DATE: 2000-07-19
;  PRIOR APPLICATION NUMBER: 09/552,317
;  PRIOR FILING DATE: 2000-04-25
;  PRIOR APPLICATION NUMBER: 09/488,725
;  PRIOR FILING DATE: 2000-01-21
;  NUMBER OF SEQ ID NOS: 1104
;  SOFTWARE: pt_FL_genes Version 1.0
; SEQ ID NO 364
;   LENGTH: 1394
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (487)..(1053)
US-10-117-722-364

  Query Match            96.6%;  Score 805.6;  DB 16;  Length 1394;
  Best Local Similarity  99.5%;  Pred. No. 7.2e-244;
  Matches  808;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy         23 CATTCTTGGTGTTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 82
              ||  ||| ||| ||||||||||||||||||||||||||||||||||||||||||||||||||
Db        441 CAGCCTTCGTGCTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 500

Qy         83 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 142
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        501 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 560

Qy        143 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 202
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        561 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 620

Qy        203 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 262
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        621 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 680

Qy        263 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 322
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        681 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 740

Qy        323 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 382
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        741 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 800

Qy        383 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 442
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        801 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 860

Qy        443 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 502
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        861 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 920

Qy        503 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 562
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        921 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 980

Qy        563 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 622
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        981 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 1040

Qy        623 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 682
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1041 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 1100

Qy        683 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 742
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1101 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 1160

Qy        743 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 802
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1161 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 1220

Qy        803 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 834
              ||||||||||||||||||||||||||||||||
Db       1221 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 1252


RESULT 7
US-10-181-590-15
; Sequence 15, Application US/10181590
; Publication No. US20030152949A1
; GENERAL INFORMATION:
;  APPLICANT: INCYTE GENOMICS, INC.
;  APPLICANT:  BANDMAN, Olga
;  APPLICANT:  MATHUR, Preete
;  APPLICANT:  TANG, Y. Tom
;  APPLICANT:  AZIMZAI, Yalda
;  APPLICANT:  YUE, Henry
;  APPLICANT:  BAUGHN, Mariah R.
;  APPLICANT:  HILLMAN, Jennifer L.
;  APPLICANT:  LAL, Preeti
;  APPLICANT:  WANG, Eureka
;  APPLICANT:  GANDHI, Ameena R.
;  APPLICANT:  POLICKY, Jennifer L.
;  TITLE OF INVENTION: PHOSPHATASES
;  FILE REFERENCE: PI-0018 PCT
;  CURRENT APPLICATION NUMBER: US/10/181,590
;  CURRENT FILING DATE:  2002-07-19
;  PRIOR APPLICATION NUMBER: 60/177,719; 60/178,988; 60/184,959; 60/190,142
;  PRIOR FILING DATE: 2000-01-21; 2000-01-28; 2000-02-25; 2000-03-17
;  NUMBER OF SEQ ID NOS: 18
;  SOFTWARE: PERL Program
; SEQ ID NO 15
;   LENGTH: 1407
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. US20030152949A1 6205333CB1
US-10-181-590-15

  Query Match            96.6%;  Score 805.6;  DB 15;  Length 1407;
  Best Local Similarity  99.5%;  Pred. No. 7.3e-244;
  Matches  808;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy         23 CATTCTTGGTGTTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 82
              ||  ||| ||| ||||||||||||||||||||||||||||||||||||||||||||||||||
Db        435 CAGCCTTCGTGCTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 494

Qy         83 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 142
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        495 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 554

Qy        143 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 202
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        555 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 614

Qy        203 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 262
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        615 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 674

Qy        263 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 322
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        675 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 734

Qy        323 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 382
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        735 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 794

Qy        383 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 442
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        795 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 854

Qy        443 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 502
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        855 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 914
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Qy        503 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 562
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        915 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 974

Qy        563 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 622
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        975 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 1034

Qy        623 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 682
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1035 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 1094

Qy        683 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 742
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1095 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 1154

Qy        743 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 802
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1155 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 1214

Qy        803 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 834
              ||||||||||||||||||||||||||||||||
Db       1215 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 1246
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RESULT 8
US-10-094-749-720
; Sequence 720, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 720
; LENGTH: 2454
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-094-749-720

Query Match 96.6%; Score 805.6; DB 16; Length 2454;
Best Local Similarity 99.5%; Pred. No. 1.1e-243;
Matches 808; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Qy         23 CATTCTTGGTGTTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 82
              ||  ||| ||| ||||||||||||||||||||||||||||||||||||||||||||||||
Db        456 CAGCCTTCGTGCTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 515

Qy         83 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 142
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        516 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 575

Qy        143 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 202
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        576 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 635

Qy        203 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 262
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        636 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 695

Qy        263 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 322
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        696 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 755

Qy        323 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 382
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        756 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 815

Qy        383 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 442
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        816 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 875

Qy        443 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 502
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        876 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 935

Qy        503 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 562
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        936 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 995

Qy        563 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 622
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        996 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 1055

Qy        623 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 682
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1056 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 1115

Qy        683 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 742
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1116 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 1175

Qy        743 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 802
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1176 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 1235

Qy        803 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 834
              ||||||||||||||||||||||||||||||||
Db       1236 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 1267
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RESULT 9
US-10-027-632-101755
; Sequence 101755, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363

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;  PRIOR FILING DATE: 1999-11-23
;  PRIOR APPLICATION NUMBER: US 60/156,358
;  PRIOR FILING DATE: 1999-09-28
;  PRIOR APPLICATION NUMBER: US 60/146,002
;  PRIOR FILING DATE: 1999-08-09
;  NUMBER OF SEQ ID NOS: 325720
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 101755
;   LENGTH: 2305
;   TYPE: DNA
;   ORGANISM: Human
US-10-027-632-101755

  Query Match             96.5%;  Score 805.2;  DB 13;  Length 2305;
  Best Local Similarity   99.4%;  Pred. No. 1.4e-243;
  Matches  807;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy         23 CATTCTTGGTGTTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 82
              ||  |||:||| ||||||||||||||||||||||||||||||||||||||||||||||||
Db         87 CAGCCTTSGTGCTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 146

Qy         83 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 142
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        147 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 206

Qy        143 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 202
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        207 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 266

Qy        203 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 262
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        267 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 326

Qy        263 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 322
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        327 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 386

Qy        323 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 382
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        387 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 446

Qy        383 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 442
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        447 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 506

Qy        443 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 502
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        507 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 566

Qy        503 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 562
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        567 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 626

Qy        563 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 622
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        627 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 686

Qy        623 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 682
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        687 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 746

Qy        683 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 742
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        747 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 806

Qy        743 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 802
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        807 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 866

Qy        803 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 834
              |||||| |||||||||||||||||||||||||
Db        867 TTTTTTAAGATTAAACTAATTGTGAGATGGTG 898

RESULT 10
US-10-027-632-101755
; Sequence 101755, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
;  APPLICANT: Wang, David G.
;  TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
;  TITLE OF INVENTION:  Polymorphisms in the Human Genome
;  FILE REFERENCE: 108827.129
;  CURRENT APPLICATION NUMBER: US/10/027,632
;  CURRENT FILING DATE:  2002-04-30
;  PRIOR APPLICATION NUMBER: US 60/218,006
;  PRIOR FILING DATE: 2000-07-12
;  PRIOR APPLICATION NUMBER: US 60/198,676
;  PRIOR FILING DATE: 2000-04-20
;  PRIOR APPLICATION NUMBER: US 60/193,483
;  PRIOR FILING DATE: 2000-03-29
;  PRIOR APPLICATION NUMBER: US 60/185,218
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/167,363
;  PRIOR FILING DATE: 1999-11-23
;  PRIOR APPLICATION NUMBER: US 60/156,358
;  PRIOR FILING DATE: 1999-09-28
;  PRIOR APPLICATION NUMBER: US 60/146,002
;  PRIOR FILING DATE: 1999-08-09
;  NUMBER OF SEQ ID NOS: 325720
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 101755
;   LENGTH: 2305
;   TYPE: DNA
;   ORGANISM: Human
US-10-027-632-101755

  Query Match             96.5%;  Score 805.2;  DB 16;  Length 2305;
  Best Local Similarity   99.4%;  Pred. No. 1.4e-243;
  Matches  807;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy         23 CATTCTTGGTGTTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 82
              ||  |||:||| ||||||||||||||||||||||||||||||||||||||||||||||||
Db         87 CAGCCTTSGTGCTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 146

Qy         83 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 142
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        147 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 206

Qy        143 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 202
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        207 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 266

Qy        203 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 262
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        267 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 326

Qy        263 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 322
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        327 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 386

Qy        323 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 382
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        387 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 446

Qy        383 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 442
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        447 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 506

Qy        443 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 502
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        507 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 566

Qy        503 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 562
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        567 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 626
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Qy        563 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 622
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        627 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 686

Qy        623 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 682
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        687 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 746

Qy        683 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 742
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        747 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 806

Qy        743 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 802
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        807 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 866

Qy        803 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 834
              |||||| |||||||||||||||||||||||||
Db        867 TTTTTTAAGATTAAACTAATTGTGAGATGGTG 898


RESULT 11
US-09-764-869-1735
; Sequence 1735, Application US/09764869
; Patent No. US20020061521A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
;  FILE REFERENCE: PC007
;  CURRENT APPLICATION NUMBER: US/09/764,869
;  CURRENT FILING DATE:  2001-01-17
;  Prior application data removed - refer to PALM or file wrapper
;  NUMBER OF SEQ ID NOS: 2442
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1735
;   LENGTH: 7537
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-764-869-1735

  Query Match             96.4%;  Score 804;  DB 9;  Length 7537;
  Best Local Similarity   99.4%;  Pred. No. 7.6e-243;
  Matches  807;  Conservative    0;  Mismatches    5;  Indels    0;  Gaps    0;

Qy         23 CATTCTTGGTGTTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 82
              ||  ||| ||| ||||||||||||||||||||||||||||||||||||||||||||||||
Db       3810 CAGCCTTCGTGCTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 3869

Qy         83 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 142
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       3870 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 3929

Qy        143 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 202
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       3930 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 3989

Qy        203 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 262
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       3990 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 4049

Qy        263 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 322
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       4050 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 4109

Qy        323 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 382
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       4110 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 4169

Qy        383 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 442
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       4170 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 4229

Qy        443 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 502
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       4230 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 4289

Qy        503 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 562
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       4290 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 4349

Qy        563 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 622
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       4350 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 4409

Qy        623 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 682
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       4410 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 4469

Qy        683 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 742
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       4470 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 4529

Qy        743 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 802
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       4530 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 4589

Qy        803 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 834
              |||||| |||||||||||||||||||||||||
Db       4590 TTTTTTAAGATTAAACTAATTGTGAGATGGTG 4621


RESULT 12
US-10-091-504-1735
; Sequence 1735, Application US/10091504
; Publication No. US20030059908A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
;  FILE REFERENCE: PC007C1
;  CURRENT APPLICATION NUMBER: US/10/091,504
;  CURRENT FILING DATE:  2002-03-07
;  NUMBER OF SEQ ID NOS: 2442
;  Prior Application removed - See File Wrapper or Palm
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1735
;   LENGTH: 7537
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-091-504-1735

  Query Match             96.4%;  Score 804;  DB 15;  Length 7537;
  Best Local Similarity   99.4%;  Pred. No. 7.6e-243;
  Matches  807;  Conservative    0;  Mismatches    5;  Indels    0;  Gaps    0;

Qy         23 CATTCTTGGTGTTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 82
              ||  ||| ||| ||||||||||||||||||||||||||||||||||||||||||||||||
Db       3810 CAGCCTTCGTGCTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 3869

Qy         83 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 142
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       3870 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 3929

Qy        143 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 202
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       3930 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 3989

Qy        203 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 262
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       3990 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 4049

Qy        263 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 322
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       4050 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 4109

Qy        323 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 382
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Db        4110 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 4169

Qy         383 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 442
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        4170 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 4229

Qy         443 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 502
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        4230 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 4289

Qy         503 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 562
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        4290 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 4349

Qy         563 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 622
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        4350 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 4409

Qy         623 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 682
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        4410 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 4469

Qy         683 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 742
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        4470 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 4529

Qy         743 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 802
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        4530 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 4589

Qy         803 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 834
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Db        4590 TTTTTTAAGATTAAACTAATTGTGAGATGGTG 4621
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RESULT 13
US-10-227-577-1735
; Sequence 1735, Application US/10227577
; Publication No. US20040005575A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007C2
; CURRENT APPLICATION NUMBER: US/10/227,577
; CURRENT FILING DATE: 2002-08-26
; PRIOR APPLICATION NUMBER: 10/091,504
; PRIOR FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: 09/764,869
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/214,886
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: 60/217,487
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,758
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/220,963
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/217,496
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,447
; PRIOR FILING DATE: 2000-08-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2442
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1735
; LENGTH: 7537
; TYPE: DNA
; ORGANISM: Homo sapiens

US-10-227-577-1735

Query Match 96.4%; Score 804; DB 16; Length 7537;
Best Local Similarity 99.4%; Pred. No. 7.6e-243;
Matches 807; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Qy          23 CATTCTTGGTGTTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 82
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Db        3810 CAGCCTTCGTGCTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 3869

Qy          83 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 142
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        3870 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 3929

Qy         143 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 202
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        3930 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 3989

Qy         203 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 262
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        3990 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCA 4049

Qy         263 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 322
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        4050 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 4109

Qy         323 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 382
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        4110 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 4169

Qy         383 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 442
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        4170 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 4229

Qy         443 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 502
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        4230 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 4289

Qy         503 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 562
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Db        4290 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 4349

Qy         563 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 622
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        4350 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 4409

Qy         623 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 682
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        4410 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 4469

Qy         683 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 742
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Db        4470 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 4529

Qy         743 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 802
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Db        4530 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 4589

Qy         803 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 834
               ||||||| |||||||||||||||||||||||
Db        4590 TTTTTTAAGATTAAACTAATTGTGAGATGGTG 4621
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RESULT 14
US-10-087-887-21
; Sequence 21, Application US/10087887
; Publication No. US20030198957A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Conley, Pamela B.
; APPLICANT: Yang, Ruey-Bing
; APPLICANT: Hart, Matthew
; APPLICANT: Tomlinson, James E.

```
;  APPLICANT:  Topper, James N.
;  APPLICANT:  Shimkets, Richard A.
;  APPLICANT:  Leach, Martin D.
;  APPLICANT:  Zerhusen, Bryan D.
;  APPLICANT:  Komuves, Laszlo
;  APPLICANT:  Padigaru, Muralidhara
;  TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME
;  FILE REFERENCE: 21402-285
;  CURRENT APPLICATION NUMBER: US/10/087,887
;  CURRENT FILING DATE:  2002-03-01
;  PRIOR APPLICATION NUMBER: 60/273,049
;  PRIOR FILING DATE: 2001-03-02
;  PRIOR APPLICATION NUMBER: 60/279,883
;  PRIOR FILING DATE: 2001-03-29
;  PRIOR APPLICATION NUMBER: 60/277,791
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/281,248
;  PRIOR FILING DATE: 2001-04-03
;  PRIOR APPLICATION NUMBER: 60/282,864
;  PRIOR FILING DATE: 2001-04-10
;  PRIOR APPLICATION NUMBER: 60/282,537
;  PRIOR FILING DATE: 2001-04-09
;  PRIOR APPLICATION NUMBER: 60/282,867
;  PRIOR FILING DATE: 2001-04-10
;  NUMBER OF SEQ ID NOS: 104
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 21
;   LENGTH: 1417
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-087-887-21

  Query Match             96.0%;  Score 800.8;  DB 15;  Length 1417;
  Best Local Similarity   99.1%;  Pred. No. 2.4e-242;
  Matches  805;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;

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Db        606 CAGCCTTCGTGCTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTC 665

Qy         83 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 142
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Db        666 GTGTGCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAA 725

Qy        143 AAGCCTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCA 202
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db        786 GATCACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGAATATCCA 845

Qy        263 GTACATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 322
              |||||||||||||||||||||||| ||||||||||||||||||||||||||||||||||
Db        846 GTACATGCAGGTACCTGTGGCTGACTTCCCTAACTCACGTCTCTGTGACTTCTTTGACCC 905

Qy        323 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 382
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Db        906 TATTGCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGC 965

Qy        383 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 442
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        966 TGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCAT 1025

Qy        443 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 502
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1026 GTCCCTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAG 1085

Qy        503 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 562
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Db       1086 CGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTTGGCAAGAACACTGTGCA 1145

Qy        563 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 622
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1146 CATGGTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGAT 1205

Qy        623 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 682
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Db       1206 GATTCCACTGTGAGCCATCCCACGAGCCCCTGCATTGGAGTCAGAGGTACAGATCTATTG 1265

Qy        683 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 742
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Db       1266 TTGATCTTACACCAAGATCCAAACTTGAACATTCTACTTTTGTTGATACAGAAAAAAACA 1325

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Db       1326 GATGATGCCTTTTATGAGCACAAAAAAGAGTTGCTGTAGCTTTTAACTTTATAATCCATT 1385

Qy        803 TTTTTTCAGATTAAACTAATTGTGAGATGGTG 834
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Db       1386 TTTTTTAAGATTAAACTAATTGTGAGATGGTG 1417


RESULT 15
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; Sequence 29, Application US/10052648A
; Publication No. US20040005558A1
; GENERAL INFORMATION:
;  APPLICANT: Anderson, David
;  APPLICANT:  Burgess, Catherine
;  APPLICANT:  Casman, Stacie
;  APPLICANT:  Colman, Steven
;  APPLICANT:  Edinger, Shlomit R.
;  APPLICANT:  Ellerman, Karen
;  APPLICANT:  Gerlach, Valerie
;  APPLICANT:  Gunther, Erik
;  APPLICANT:  Kekuda, Ramesh
;  APPLICANT:  MacDougall, John R.
;  APPLICANT:  Mehraban, Fuad
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Rothenberg, Mark
;  APPLICANT:  Shimkets, Richard
;  APPLICANT:  Smithson, Glennda
;  APPLICANT:  Spytek, Kimberly A.
;  APPLICANT:  Stone, David J.
;  APPLICANT:  Vernet, Corine A.M.
;  APPLICANT:  Zerhusen, Bryan D.
;  TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF
;  TITLE OF INVENTION:  USING THE SAME
;  FILE REFERENCE: 21402-250 (CURA-550)
;  CURRENT APPLICATION NUMBER: US/10/052,648A
;  CURRENT FILING DATE:  2002-12-09
;  PRIOR APPLICATION NUMBER: 60/262,454
;  PRIOR FILING DATE: 2001-01-18
;  PRIOR APPLICATION NUMBER: 60/272,920
;  PRIOR FILING DATE: 2001-03-02
;  PRIOR APPLICATION NUMBER: 60/284,549
;  PRIOR FILING DATE: 2001-04-18
;  PRIOR APPLICATION NUMBER: 60/303,229
;  PRIOR FILING DATE: 2001-07-05
;  PRIOR APPLICATION NUMBER: 60/262,892
;  PRIOR FILING DATE: 2001-01-19
;  PRIOR APPLICATION NUMBER: 60/263,605
;  PRIOR FILING DATE: 2001-01-23
;  PRIOR APPLICATION NUMBER: 60/269,098
;  PRIOR FILING DATE: 2001-02-15
;  PRIOR APPLICATION NUMBER: 60/264,159
;  PRIOR FILING DATE: 2001-01-25
;  PRIOR APPLICATION NUMBER: 60/265,517
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/271,855
;  PRIOR FILING DATE: 2001-02-27
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 97
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
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;   LENGTH: 624
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-052-648A-29

  Query Match            73.5%;  Score 612.8;  DB 16;  Length 624;
  Best Local Similarity  98.9%;  Pred. No. 5.1e-183;
  Matches  617;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;

Qy         27 CTTGGTGTTTCGCTGACTGCTGACCACTGACCCACCGCCTTGATGACAGCACCCTCGTGT 86
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Db          1 CTTTGAGCTTCTCTGACTGCTGACCACTGACCCACCGACTTGATGACAGCACCCTCGTGT 60

Qy         87 GCCTTCCCAGTTCAGTTCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAAAAGC 146
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Db         61 GCCTTCCCAGTTCAAATCCGGCAGCCCTCAGTCAGCGGCCTCTCGCAGATAACCAAAAGC 120

Qy        147 CTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCAGATC 206
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Db        121 CTGTATATCAGCAATGGTGTGGCCGCCAACAACAAGCTCATGCTGTCTAGCAACCAGATC 180

Qy        207 ACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCAGTAC 266
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 ACCATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCAGTAC 240

Qy        267 ATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTATT 326
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Db        241 ATGCAGGTACCTGTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTATT 300

Qy        327 GCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGCTGCT 386
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Db        301 GCTGACCATATCCACAGCGTGGAGATGAAGCAGGGCCGTACTTTGCTGCACTGTGCTGCT 360

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Db        361 GGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGCCTACCTCATGAAGTACCACGCCATGTCC 420

Qy        447 CTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAGCGGC 506
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Db        421 CTGCTGGACGCCCACACGTGGACCAAGTCATGCCGGCCCATCATCCGACCCAACAGCGGC 480

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Qy        567 GTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGATGATT 626
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Db        541 GTCAGTTCCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGATGATT 600

Qy        627 CCACTGTGAGCCATCCCACGAGCC 650
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Db        601 CCACTGTGAGCCATCCCACGAGCC 624


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Run on: July 22, 2004, 13:47:18 ; Search time 45 Seconds
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Title: US-09-527-376-2
Perfect score: 981
Sequence: 1 MTAPSCAFPVQFRQPSVSGL.....SPVGMIPDIYEKEVRLMIPL 188

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1288442 seqs, 313154207 residues

Total number of hits satisfying chosen parameters: 1288442

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	981	100.0	188	14	US-10-181-590-6	Sequence 6, Appli
2	981	100.0	188	14	US-10-087-887-18	Sequence 18, Appl
3	981	100.0	188	15	US-10-094-749-2359	Sequence 2359, Ap
4	981	100.0	188	15	US-10-052-648A-78	Sequence 78, Appl
5	981	100.0	192	9	US-09-764-869-872	Sequence 872, App
6	981	100.0	192	14	US-10-091-504-872	Sequence 872, App
7	981	100.0	192	14	US-10-103-313-547	Sequence 547, App
8	981	100.0	192	15	US-10-227-577-872	Sequence 872, App
9	975	99.4	188	15	US-10-052-648A-30	Sequence 30, Appl
10	921	93.9	177	9	US-09-864-761-42750	Sequence 42750, A
11	818	83.4	188	15	US-10-052-648A-79	Sequence 79, Appl
12	780	79.5	151	15	US-10-052-648A-80	Sequence 80, Appl
13	733.5	74.8	189	14	US-10-087-887-94	Sequence 94, Appl
14	727	74.1	139	14	US-10-087-887-100	Sequence 100, App
15	703	71.7	187	15	US-10-052-648A-81	Sequence 81, Appl
16	700	71.4	190	13	US-10-044-205A-44	Sequence 44, Appl
17	700	71.4	190	14	US-10-087-887-95	Sequence 95, Appl
18	700	71.4	190	15	US-10-052-648A-82	Sequence 82, Appl
19	697	71.0	190	13	US-10-044-205A-42	Sequence 42, Appl
20	511	52.1	198	14	US-10-087-887-96	Sequence 96, Appl
21	511	52.1	198	15	US-10-428-487-40	Sequence 40, Appl
22	500	51.0	198	14	US-10-087-887-97	Sequence 97, Appl
23	431	43.9	151	9	US-09-864-761-46915	Sequence 46915, A
24	280	28.5	139	12	US-10-072-012-816	Sequence 816, App
25	280	28.5	139	12	US-10-072-012-871	Sequence 871, App
26	280	28.5	139	12	US-10-072-012-873	Sequence 873, App
27	280	28.5	139	15	US-10-052-648A-83	Sequence 83, Appl
28	269	27.4	139	12	US-10-072-012-817	Sequence 817, App
29	269	27.4	139	12	US-10-072-012-864	Sequence 864, App
30	269	27.4	139	12	US-10-072-012-868	Sequence 868, App
31	269	27.4	139	12	US-10-072-012-869	Sequence 869, App
32	269	27.4	139	12	US-10-072-012-870	Sequence 870, App
33	269	27.4	139	12	US-10-072-012-872	Sequence 872, App
34	269	27.4	139	15	US-10-052-648A-84	Sequence 84, Appl
35	253	25.8	353	14	US-10-087-887-98	Sequence 98, Appl
36	252	25.7	367	9	US-09-919-497-60	Sequence 60, Appl
37	252	25.7	367	15	US-10-341-434-93	Sequence 93, Appl
38	246	25.1	154	9	US-09-964-277-9	Sequence 9, Appli
39	246	25.1	154	9	US-09-955-732-8	Sequence 8, Appli
40	246	25.1	167	14	US-10-346-356-17	Sequence 17, Appl
41	246	25.1	169	9	US-09-775-925-28	Sequence 28, Appl
42	246	25.1	169	9	US-09-847-519A-13	Sequence 13, Appl
43	246	25.1	169	12	US-10-655-073-18	Sequence 18, Appl
44	246	25.1	169	14	US-10-314-058-16	Sequence 16, Appl
45	246	25.1	169	14	US-10-405-808-18	Sequence 18, Appl

ALIGNMENTS

RESULT 1
US-10-181-590-6
; Sequence 6, Application US/10181590
; Publication No. US20030152949A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: BANDMAN, Olga
; APPLICANT: MATHUR, Preete
; APPLICANT: TANG, Y. Tom
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: YUE, Henry
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: HILLMAN, Jennifer L.
; APPLICANT: LAL, Preeti
; APPLICANT: WANG, Eureka
; APPLICANT: GANDHI, Ameena R.
; APPLICANT: POLICKY, Jennifer L.
; TITLE OF INVENTION: PHOSPHATASES
; FILE REFERENCE: PI-0018 PCT
; CURRENT APPLICATION NUMBER: US/10/181,590
; CURRENT FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/177,719; 60/178,988; 60/184,959; 60/190,142
; PRIOR FILING DATE: 2000-01-21; 2000-01-28; 2000-02-25; 2000-03-17
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PERL Program
; SEQ ID NO 6
; LENGTH: 188
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20030152949A1 6205333CD1
US-10-181-590-6

Query Match 100.0%; Score 981; DB 14; Length 188;
Best Local Similarity 100.0%; Pred. No. 1e-101;
Matches 188; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy        181 EVRLMIPL 188
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RESULT 2
US-10-087-887-18
; Sequence 18, Application US/10087887
; Publication No. US20030198957A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Conley, Pamela B.
; APPLICANT: Yang, Ruey-Bing
; APPLICANT: Hart, Matthew
; APPLICANT: Tomlinson, James E.
; APPLICANT: Topper, James N.
; APPLICANT: Shimkets, Richard A.
; APPLICANT: Leach, Martin D.
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Komuves, Laszlo
; APPLICANT: Padigaru, Muralidhara
; TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-285
; CURRENT APPLICATION NUMBER: US/10/087,887
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: 60/273,049
; PRIOR FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: 60/279,883
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/277,791
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/281,248
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/282,864
; PRIOR FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: 60/282,537
; PRIOR FILING DATE: 2001-04-09
; PRIOR APPLICATION NUMBER: 60/282,867
; PRIOR FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 104
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 18
; LENGTH: 188
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-087-887-18

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Best Local Similarity 100.0%; Pred. No. 1e-101;
Matches 188; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db        181 EVRLMIPL 188
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RESULT 3
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; Sequence 2359, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2359
; LENGTH: 188
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2359

Query Match 100.0%; Score 981; DB 15; Length 188;
Best Local Similarity 100.0%; Pred. No. 1e-101;
Matches 188; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; Sequence 78, Application US/10052648A
; Publication No. US20040005558A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David

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;  APPLICANT:  Burgess, Catherine
;  APPLICANT:  Casman, Stacie
;  APPLICANT:  Colman, Steven
;  APPLICANT:  Edinger, Shlomit R.
;  APPLICANT:  Ellerman, Karen
;  APPLICANT:  Gerlach, Valerie
;  APPLICANT:  Gunther, Erik
;  APPLICANT:  Kekuda, Ramesh
;  APPLICANT:  MacDougall, John R.
;  APPLICANT:  Mehraban, Fuad
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Rothenberg, Mark
;  APPLICANT:  Shimkets, Richard
;  APPLICANT:  Smithson, Glennda
;  APPLICANT:  Spytek, Kimberly A.
;  APPLICANT:  Stone, David J.
;  APPLICANT:  Vernet, Corine A.M.
;  APPLICANT:  Zerhusen, Bryan D.
;  TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF
;  TITLE OF INVENTION:  USING THE SAME
;  FILE REFERENCE: 21402-250 (CURA-550)
;  CURRENT APPLICATION NUMBER: US/10/052,648A
;  CURRENT FILING DATE:  2002-12-09
;  PRIOR APPLICATION NUMBER: 60/262,454
;  PRIOR FILING DATE: 2001-01-18
;  PRIOR APPLICATION NUMBER: 60/272,920
;  PRIOR FILING DATE: 2001-03-02
;  PRIOR APPLICATION NUMBER: 60/284,549
;  PRIOR FILING DATE: 2001-04-18
;  PRIOR APPLICATION NUMBER: 60/303,229
;  PRIOR FILING DATE: 2001-07-05
;  PRIOR APPLICATION NUMBER: 60/262,892
;  PRIOR FILING DATE: 2001-01-19
;  PRIOR APPLICATION NUMBER: 60/263,605
;  PRIOR FILING DATE: 2001-01-23
;  PRIOR APPLICATION NUMBER: 60/269,098
;  PRIOR FILING DATE: 2001-02-15
;  PRIOR APPLICATION NUMBER: 60/264,159
;  PRIOR FILING DATE: 2001-01-25
;  PRIOR APPLICATION NUMBER: 60/265,517
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/271,855
;  PRIOR FILING DATE: 2001-02-27
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 97
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 78
;   LENGTH: 188
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-052-648A-78

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  Matches  188;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Qy        181 EVRLMIPL 188
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Db        181 EVRLMIPL 188
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RESULT 5
US-09-764-872
; Sequence 872, Application US/09764869
; Patent No. US20020061521A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
;  FILE REFERENCE: PC007
;  CURRENT APPLICATION NUMBER: US/09/764,869
;  CURRENT FILING DATE:  2001-01-17
;  Prior application data removed - refer to PALM or file wrapper
;  NUMBER OF SEQ ID NOS: 2442
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 872
;   LENGTH: 192
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-764-869-872

  Query Match            100.0%;  Score 981;  DB 9;  Length 192;
  Best Local Similarity   100.0%;  Pred. No. 1.1e-101;
  Matches  188;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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RESULT 6
US-10-091-504-872
; Sequence 872, Application US/10091504
; Publication No. US20030059908A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
;  FILE REFERENCE: PC007C1
;  CURRENT APPLICATION NUMBER: US/10/091,504
;  CURRENT FILING DATE:  2002-03-07
;  NUMBER OF SEQ ID NOS: 2442
;  Prior Application removed - See File Wrapper or Palm
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 872
;   LENGTH: 192
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-091-504-872

  Query Match            100.0%;  Score 981;  DB 14;  Length 192;
  Best Local Similarity   100.0%;  Pred. No. 1.1e-101;
  Matches  188;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MTAPSCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTL 60
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Db          5 MTAPSCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTL 64

Qy         61 YEDIQYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLM 120
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Db         65 YEDIQYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLM 124

Qy        121 KYHAMSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPDIYEK 180
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Db        125 KYHAMSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPDIYEK 184

Qy        181 EVRLMIPL 188
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Db        185 EVRLMIPL 192


RESULT 7
US-10-103-313-547
; Sequence 547, Application US/10103313
; Publication No. US20030082758A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
;  FILE REFERENCE: PJZ07C1
;  CURRENT APPLICATION NUMBER: US/10/103,313
;  CURRENT FILING DATE:  2002-03-12
;  NUMBER OF SEQ ID NOS: 653
;       Prior Application removed - See File Wrapper or Palm
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 547
;   LENGTH: 192
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-103-313-547

  Query Match             100.0%;  Score 981;  DB 14;  Length 192;
  Best Local Similarity   100.0%;  Pred. No. 1.1e-101;
  Matches  188;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MTAPSCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTL 60
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Qy        181 EVRLMIPL 188
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Db        185 EVRLMIPL 192


RESULT 8
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; Sequence 872, Application US/10227577
; Publication No. US20040005575A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
;  FILE REFERENCE: PC007C2
;  CURRENT APPLICATION NUMBER: US/10/227,577
;  CURRENT FILING DATE:  2002-08-26
;  PRIOR APPLICATION NUMBER: 10/091,504
;  PRIOR FILING DATE: 2002-03-07
;  PRIOR APPLICATION NUMBER: 09/764,869
;  PRIOR FILING DATE: 2001-01-17
;  PRIOR APPLICATION NUMBER: 60/179,065
;  PRIOR FILING DATE: 2000-01-31
;  PRIOR APPLICATION NUMBER: 60/180,628
;  PRIOR FILING DATE: 2000-02-04
;  PRIOR APPLICATION NUMBER: 60/214,886
;  PRIOR FILING DATE: 2000-06-28
;  PRIOR APPLICATION NUMBER: 60/217,487
;  PRIOR FILING DATE: 2000-07-11
;  PRIOR APPLICATION NUMBER: 60/225,758
;  PRIOR FILING DATE: 2000-08-14
;  PRIOR APPLICATION NUMBER: 60/220,963
;  PRIOR FILING DATE: 2000-07-26
;  PRIOR APPLICATION NUMBER: 60/217,496
;  PRIOR FILING DATE: 2000-07-11
;  PRIOR APPLICATION NUMBER: 60/225,447
;  PRIOR FILING DATE: 2000-08-14
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 2442
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 872
;   LENGTH: 192
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-227-577-872

  Query Match             100.0%;  Score 981;  DB 15;  Length 192;
  Best Local Similarity   100.0%;  Pred. No. 1.1e-101;
  Matches  188;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MTAPSCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTL 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          5 MTAPSCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTL 64

Qy         61 YEDIQYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLM 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         65 YEDIQYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLM 124

Qy        121 KYHAMSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPDIYEK 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        125 KYHAMSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPDIYEK 184

Qy        181 EVRLMIPL 188
              ||||||||
Db        185 EVRLMIPL 192


RESULT 9
US-10-052-648A-30
; Sequence 30, Application US/10052648A
; Publication No. US20040005558A1
; GENERAL INFORMATION:
;  APPLICANT: Anderson, David
;  APPLICANT:  Burgess, Catherine
;  APPLICANT:  Casman, Stacie
;  APPLICANT:  Colman, Steven
;  APPLICANT:  Edinger, Shlomit R.
;  APPLICANT:  Ellerman, Karen
;  APPLICANT:  Gerlach, Valerie
;  APPLICANT:  Gunther, Erik
;  APPLICANT:  Kekuda, Ramesh
;  APPLICANT:  MacDougall, John R.
;  APPLICANT:  Mehraban, Fuad
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Rothenberg, Mark
;  APPLICANT:  Shimkets, Richard
;  APPLICANT:  Smithson, Glennda
;  APPLICANT:  Spytek, Kimberly A.
;  APPLICANT:  Stone, David J.
;  APPLICANT:  Vernet, Corine A.M.
;  APPLICANT:  Zerhusen, Bryan D.
;  TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF
;  TITLE OF INVENTION:  USING THE SAME
;  FILE REFERENCE: 21402-250 (CURA-550)
;  CURRENT APPLICATION NUMBER: US/10/052,648A
;  CURRENT FILING DATE:  2002-12-09
;  PRIOR APPLICATION NUMBER: 60/262,454
;  PRIOR FILING DATE: 2001-01-18
;  PRIOR APPLICATION NUMBER: 60/272,920
;  PRIOR FILING DATE: 2001-03-02
;  PRIOR APPLICATION NUMBER: 60/284,549
;  PRIOR FILING DATE: 2001-04-18
;  PRIOR APPLICATION NUMBER: 60/303,229
;  PRIOR FILING DATE: 2001-07-05
;  PRIOR APPLICATION NUMBER: 60/262,892
;  PRIOR FILING DATE: 2001-01-19
```

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;  PRIOR APPLICATION NUMBER: 60/263,605
;  PRIOR FILING DATE: 2001-01-23
;  PRIOR APPLICATION NUMBER: 60/269,098
;  PRIOR FILING DATE: 2001-02-15
;  PRIOR APPLICATION NUMBER: 60/264,159
;  PRIOR FILING DATE: 2001-01-25
;  PRIOR APPLICATION NUMBER: 60/265,517
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/271,855
;  PRIOR FILING DATE: 2001-02-27
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 97
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 30
;   LENGTH: 188
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-052-648A-30

  Query Match             99.4%;  Score 975;  DB 15;  Length 188;
  Best Local Similarity   99.5%;  Pred. No. 4.8e-101;
  Matches  187;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MTAPSCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTL 60
              ||||||||||| |||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MTAPSCAFPVQIRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTL 60

Qy         61 YEDIQYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLM 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 YEDIQYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLM 120

Qy        121 KYHAMSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPDIYEK 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 KYHAMSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPDIYEK 180

Qy        181 EVRLMIPL 188
              ||||||||
Db        181 EVRLMIPL 188


RESULT 10
US-09-864-761-42750
; Sequence 42750, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
;  APPLICANT: Penn, Sharron G.
;  APPLICANT:  Rank, David R.
;  APPLICANT:  Hanzel, David K.
;  APPLICANT:  Chen, Wensheng
;  TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
;  TITLE OF INVENTION:  GENE EXPRESSION ANALYSIS BY MICROARRAY
;  FILE REFERENCE: Aeomica-X-1
;  CURRENT APPLICATION NUMBER: US/09/864,761
;  CURRENT FILING DATE:  2001-05-23
;  PRIOR APPLICATION NUMBER: US 60/180,312
;  PRIOR FILING DATE: 2000-02-04
;  PRIOR APPLICATION NUMBER: US 60/207,456
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: US 09/632,366
;  PRIOR FILING DATE: 2000-08-03
;  PRIOR APPLICATION NUMBER: GB 24263.6
;  PRIOR FILING DATE: 2000-10-04
;  PRIOR APPLICATION NUMBER: US 60/236,359
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: PCT/US01/00666
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00667
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00664
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00669
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00665
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00668
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00663
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00662
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00661
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00670
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: US 60/234,687
;  PRIOR FILING DATE: 2000-09-21
;  PRIOR APPLICATION NUMBER: US 09/608,408
;  PRIOR FILING DATE: 2000-06-30
;  PRIOR APPLICATION NUMBER: US 09/774,203
;  PRIOR FILING DATE: 2001-01-29
;  NUMBER OF SEQ ID NOS: 49117
;  SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 42750
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: MAP TO AL079299.8
;   OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.1
;   OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.3
;   OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.94
;   OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
;   OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.5
;   OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.95
;   OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL =   1
;   OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 2.2
;   OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3
;   OTHER INFORMATION: EST_HUMAN HIT: BE222374.1, EVALUE 7.00e-95
;   OTHER INFORMATION: SWISSPROT HIT: Q64623, EVALUE 2.00e-21
US-09-864-761-42750

  Query Match             93.9%;  Score 921;  DB 9;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 5.2e-95;
  Matches  177;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         12 FRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDIQYMQVPV 71
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 FRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDIQYMQVPV 60

Qy         72 ADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHAMSLLDAH 131
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 ADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHAMSLLDAH 120

Qy        132 TWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPDIYEKEVRLMIPL 188
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 TWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPDIYEKEVRLMIPL 177


RESULT 11
US-10-052-648A-79
; Sequence 79, Application US/10052648A
; Publication No. US20040005558A1
; GENERAL INFORMATION:
;  APPLICANT: Anderson, David
;  APPLICANT:  Burgess, Catherine
;  APPLICANT:  Casman, Stacie
;  APPLICANT:  Colman, Steven
;  APPLICANT:  Edinger, Shlomit R.
;  APPLICANT:  Ellerman, Karen
;  APPLICANT:  Gerlach, Valerie
;  APPLICANT:  Gunther, Erik
;  APPLICANT:  Kekuda, Ramesh
;  APPLICANT:  MacDougall, John R.
;  APPLICANT:  Mehraban, Fuad
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Rothenberg, Mark
```

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;  APPLICANT:  Shimkets, Richard
;  APPLICANT:  Smithson, Glennda
;  APPLICANT:  Spytek, Kimberly A.
;  APPLICANT:  Stone, David J.
;  APPLICANT:  Vernet, Corine A.M.
;  APPLICANT:  Zerhusen, Bryan D.
;  TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF
;  TITLE OF INVENTION:  USING THE SAME
;  FILE REFERENCE: 21402-250 (CURA-550)
;  CURRENT APPLICATION NUMBER: US/10/052,648A
;  CURRENT FILING DATE:  2002-12-09
;  PRIOR APPLICATION NUMBER: 60/262,454
;  PRIOR FILING DATE: 2001-01-18
;  PRIOR APPLICATION NUMBER: 60/272,920
;  PRIOR FILING DATE: 2001-03-02
;  PRIOR APPLICATION NUMBER: 60/284,549
;  PRIOR FILING DATE: 2001-04-18
;  PRIOR APPLICATION NUMBER: 60/303,229
;  PRIOR FILING DATE: 2001-07-05
;  PRIOR APPLICATION NUMBER: 60/262,892
;  PRIOR FILING DATE: 2001-01-19
;  PRIOR APPLICATION NUMBER: 60/263,605
;  PRIOR FILING DATE: 2001-01-23
;  PRIOR APPLICATION NUMBER: 60/269,098
;  PRIOR FILING DATE: 2001-02-15
;  PRIOR APPLICATION NUMBER: 60/264,159
;  PRIOR FILING DATE: 2001-01-25
;  PRIOR APPLICATION NUMBER: 60/265,517
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/271,855
;  PRIOR FILING DATE: 2001-02-27
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 97
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 79
;   LENGTH: 188
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-052-648A-79

  Query Match             83.4%;  Score 818;  DB 15;  Length 188;
  Best Local Similarity   82.4%;  Pred. No. 2.1e-83;
  Matches  155;  Conservative   15;  Mismatches   18;  Indels    0;  Gaps    0;

Qy          1 MTAPSCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTL 60
              ||:|  |||||  |||: |||||||||:||||||||||:||||||| |||||||| ||
Db          1 MTSPWSAFPVQIPQPSIRGLSQITKSLFISNGVAANNKLLLSSNQITTVINVSVEVANTF 60

Qy         61 YEDIQYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLM 120
              ||||||:|||| |:| :|| :||| :|| |||||||::||||||||||||||||||||||
Db         61 YEDIQYVQVPVVDAPVARLSNFFDSVADRIHSVEMQKGRTLLHCAAGVSRSAALCLAYLM 120

Qy        121 KYHAMSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPDIYEK 180
              |||||||:|||||||||||||||||||||||| |||||||: |: ||:| |||||||
Db        121 KYHAMSLVDAHTWTKSCRPIIRPNSGFWEQLIHYELQLFGKNTMQMMDSPMGRIPDIYEK 180

Qy        181 EVRLMIPL 188
              | ||||||
Db        181 ETRLMIPL 188


RESULT 12
US-10-052-648A-80
; Sequence 80, Application US/10052648A
; Publication No. US20040005558A1
; GENERAL INFORMATION:
;  APPLICANT: Anderson, David
;  APPLICANT:  Burgess, Catherine
;  APPLICANT:  Casman, Stacie
;  APPLICANT:  Colman, Steven
;  APPLICANT:  Edinger, Shlomit R.
;  APPLICANT:  Ellerman, Karen
;  APPLICANT:  Gerlach, Valerie
;  APPLICANT:  Gunther, Erik
;  APPLICANT:  Kekuda, Ramesh
;  APPLICANT:  MacDougall, John R.
;  APPLICANT:  Mehraban, Fuad
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Rothenberg, Mark
;  APPLICANT:  Shimkets, Richard
;  APPLICANT:  Smithson, Glennda
;  APPLICANT:  Spytek, Kimberly A.
;  APPLICANT:  Stone, David J.
;  APPLICANT:  Vernet, Corine A.M.
;  APPLICANT:  Zerhusen, Bryan D.
;  TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF
;  TITLE OF INVENTION:  USING THE SAME
;  FILE REFERENCE: 21402-250 (CURA-550)
;  CURRENT APPLICATION NUMBER: US/10/052,648A
;  CURRENT FILING DATE:  2002-12-09
;  PRIOR APPLICATION NUMBER: 60/262,454
;  PRIOR FILING DATE: 2001-01-18
;  PRIOR APPLICATION NUMBER: 60/272,920
;  PRIOR FILING DATE: 2001-03-02
;  PRIOR APPLICATION NUMBER: 60/284,549
;  PRIOR FILING DATE: 2001-04-18
;  PRIOR APPLICATION NUMBER: 60/303,229
;  PRIOR FILING DATE: 2001-07-05
;  PRIOR APPLICATION NUMBER: 60/262,892
;  PRIOR FILING DATE: 2001-01-19
;  PRIOR APPLICATION NUMBER: 60/263,605
;  PRIOR FILING DATE: 2001-01-23
;  PRIOR APPLICATION NUMBER: 60/269,098
;  PRIOR FILING DATE: 2001-02-15
;  PRIOR APPLICATION NUMBER: 60/264,159
;  PRIOR FILING DATE: 2001-01-25
;  PRIOR APPLICATION NUMBER: 60/265,517
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/271,855
;  PRIOR FILING DATE: 2001-02-27
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 97
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 80
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-052-648A-80

  Query Match             79.5%;  Score 780;  DB 15;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 2.9e-79;
  Matches  148;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         41 LSSNQITMVINVSVEVVNTLYEDIQYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRT 100
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          4 LSSNQITMVINVSVEVVNTLYEDIQYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRT 63

Qy        101 LLHCAAGVSRSAALCLAYLMKYHAMSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFG 160
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         64 LLHCAAGVSRSAALCLAYLMKYHAMSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFG 123

Qy        161 KNTVHMVSSPVGMIPDIYEKEVRLMIPL 188
              ||||||||||||||||||||||||||||
Db        124 KNTVHMVSSPVGMIPDIYEKEVRLMIPL 151


RESULT 13
US-10-087-887-94
; Sequence 94, Application US/10087887
; Publication No. US20030198957A1
; GENERAL INFORMATION:
;  APPLICANT: Kekuda, Ramesh
;  APPLICANT:  Conley, Pamela B.
;  APPLICANT:  Yang, Ruey-Bing
;  APPLICANT:  Hart, Matthew
;  APPLICANT:  Tomlinson, James E.
```

```
;  APPLICANT:  Topper, James N.
;  APPLICANT:  Shimkets, Richard A.
;  APPLICANT:  Leach, Martin D.
;  APPLICANT:  Zerhusen, Bryan D.
;  APPLICANT:  Komuves, Laszlo
;  APPLICANT:  Padigaru, Muralidhara
;  TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME
;  FILE REFERENCE: 21402-285
;  CURRENT APPLICATION NUMBER: US/10/087,887
;  CURRENT FILING DATE:  2002-03-01
;  PRIOR APPLICATION NUMBER: 60/273,049
;  PRIOR FILING DATE: 2001-03-02
;  PRIOR APPLICATION NUMBER: 60/279,883
;  PRIOR FILING DATE: 2001-03-29
;  PRIOR APPLICATION NUMBER: 60/277,791
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/281,248
;  PRIOR FILING DATE: 2001-04-03
;  PRIOR APPLICATION NUMBER: 60/282,864
;  PRIOR FILING DATE: 2001-04-10
;  PRIOR APPLICATION NUMBER: 60/282,537
;  PRIOR FILING DATE: 2001-04-09
;  PRIOR APPLICATION NUMBER: 60/282,867
;  PRIOR FILING DATE: 2001-04-10
;  NUMBER OF SEQ ID NOS: 104
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 94
;   LENGTH: 189
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-087-887-94

  Query Match             74.8%;  Score 733.5;  DB 14;  Length 189;
  Best Local Similarity   73.7%;  Pred. No. 6.6e-74;
  Matches  137;  Conservative   21;  Mismatches   27;  Indels    1;  Gaps    1;

Qy          1 MTAPSCAFPVQ-FRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNT 59
              ||  || || |  :| :: |||||| ||:|||   ||:|| ||:| || :|||| |||||
Db          1 MTTASCIFPSQATQQDNIYGLSQITASLFISNSAVANDKLTLSNNHITTIINVSAEVVNT 60

Qy         60 LYEDIQYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYL 119
              :|||||:||||:|:||| | |||||||||| |||: |||||||||||||| ||||||
Db         61 FFEDIQYVQVPVSDAPNSYLYDFFDPIADHIHGVEMRNGRTLLHCAAGVSRSATLCLAYL 120

Qy        120 MKYHAMSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPDIYE 179
              |||| |:||||||||:||||||||:||||||||||:|| :||| |: ||:|:||:|||
Db        121 MKYHNMTLLDAHTWTKTCRPIIRPNNGFWEQLIHYEFKLFSRNTVRMIYSPIGLIPNIYE 180

Qy        180 KEVRLM 185
              ||  ||
Db        181 KEAYLM 186


RESULT 14
US-10-087-887-100
; Sequence 100, Application US/10087887
; Publication No. US20030198957A1
; GENERAL INFORMATION:
;  APPLICANT: Kekuda, Ramesh
;  APPLICANT:  Conley, Pamela B.
;  APPLICANT:  Yang, Ruey-Bing
;  APPLICANT:  Hart, Matthew
;  APPLICANT:  Tomlinson, James E.
;  APPLICANT:  Topper, James N.
;  APPLICANT:  Shimkets, Richard A.
;  APPLICANT:  Leach, Martin D.
;  APPLICANT:  Zerhusen, Bryan D.
;  APPLICANT:  Komuves, Laszlo
;  APPLICANT:  Padigaru, Muralidhara
;  TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME
;  FILE REFERENCE: 21402-285
;  CURRENT APPLICATION NUMBER: US/10/087,887
;  CURRENT FILING DATE:  2002-03-01
;  PRIOR APPLICATION NUMBER: 60/273,049
;  PRIOR FILING DATE: 2001-03-02
;  PRIOR APPLICATION NUMBER: 60/279,883
;  PRIOR FILING DATE: 2001-03-29
;  PRIOR APPLICATION NUMBER: 60/277,791
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/281,248
;  PRIOR FILING DATE: 2001-04-03
;  PRIOR APPLICATION NUMBER: 60/282,864
;  PRIOR FILING DATE: 2001-04-10
;  PRIOR APPLICATION NUMBER: 60/282,537
;  PRIOR FILING DATE: 2001-04-09
;  PRIOR APPLICATION NUMBER: 60/282,867
;  PRIOR FILING DATE: 2001-04-10
;  NUMBER OF SEQ ID NOS: 104
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 100
;   LENGTH: 139
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-087-887-100

  Query Match             74.1%;  Score 727;  DB 14;  Length 139;
  Best Local Similarity   100.0%;  Pred. No. 2.3e-73;
  Matches  139;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy         19 GLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDIQYMQVPVADSPNSR 78
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 GLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDIQYMQVPVADSPNSR 60

Qy         79 LCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHAMSLLDAHTWTKSCR 138
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 LCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHAMSLLDAHTWTKSCR 120

Qy        139 PIIRPNSGFWEQLIHYEFQ 157
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RESULT 15
US-10-052-648A-81
; Sequence 81, Application US/10052648A
; Publication No. US20040005558A1
; GENERAL INFORMATION:
;  APPLICANT: Anderson, David
;  APPLICANT:  Burgess, Catherine
;  APPLICANT:  Casman, Stacie
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;  APPLICANT:  Ellerman, Karen
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;  APPLICANT:  Gunther, Erik
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;  APPLICANT:  Rothenberg, Mark
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;  APPLICANT:  Smithson, Glennda
;  APPLICANT:  Spytek, Kimberly A.
;  APPLICANT:  Stone, David J.
;  APPLICANT:  Vernet, Corine A.M.
;  APPLICANT:  Zerhusen, Bryan D.
;  TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF
;  TITLE OF INVENTION:  USING THE SAME
;  FILE REFERENCE: 21402-250 (CURA-550)
;  CURRENT APPLICATION NUMBER: US/10/052,648A
;  CURRENT FILING DATE:  2002-12-09
;  PRIOR APPLICATION NUMBER: 60/262,454
;  PRIOR FILING DATE: 2001-01-18
;  PRIOR APPLICATION NUMBER: 60/272,920
;  PRIOR FILING DATE: 2001-03-02
;  PRIOR APPLICATION NUMBER: 60/284,549
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;  PRIOR FILING DATE: 2001-04-18
;  PRIOR APPLICATION NUMBER: 60/303,229
;  PRIOR FILING DATE: 2001-07-05
;  PRIOR APPLICATION NUMBER: 60/262,892
;  PRIOR FILING DATE: 2001-01-19
;  PRIOR APPLICATION NUMBER: 60/263,605
;  PRIOR FILING DATE: 2001-01-23
;  PRIOR APPLICATION NUMBER: 60/269,098
;  PRIOR FILING DATE: 2001-02-15
;  PRIOR APPLICATION NUMBER: 60/264,159
;  PRIOR FILING DATE: 2001-01-25
;  PRIOR APPLICATION NUMBER: 60/265,517
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/271,855
;  PRIOR FILING DATE: 2001-02-27
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 97
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 81
;   LENGTH: 187
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-052-648A-81

  Query Match             71.7%;  Score 703;  DB 15;  Length 187;
  Best Local Similarity   73.5%;  Pred. No. 1.7e-70;
  Matches  133;  Conservative   21;  Mismatches   25;  Indels    2;  Gaps    2;

Qy          1 MTAPSCAFPVQ-FRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNT 59
              ||  || || |  :| :: |||||| ||:|||   ||:|| ||:| || :|||| |||||
Db          1 MTTASCIFPSQATQQDNIYGLSQITASLFISNSAVANDKLTLSNNHITTIINVSAEVVNT 60

Qy         60 LYEDIQYMQVPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYL 119
               :|||||:||||:|:||| | |||||||| || |||: ||||||||||||||| ||||||
Db         61 FFEDIQYVQVPVSDAPNSYLYDFFDPIAD-IHGVEMRNGRTLLHCAAGVSRSATLCLAYL 119

Qy        120 MKYHAMSLLDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPDIYE 179
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Db        120 MKYHNMTLLDAHTWTKTCRPIIRPNNGFWEQLIHYEFKLFSRNTVRMIYSPIGLIPNIYE 179

Qy        180 K 180
              |
Db        180 K 180


Search completed: July 22, 2004, 13:52:50
Job time : 46 secs
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